

OS/390



Security Server (RACF) Data Areas

OS/390



Security Server (RACF) Data Areas

Note

Before using this information and the product it supports, be sure to read the general information under "Notices" on page v.

| **Sixth Edition, September 1998**

| This is a major revision of SY27-2640-04.

| This edition applies to Version 2 Release 6 of OS/390 (5647-A01) and to all subsequent releases and modifications until otherwise indicated in new editions.

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This publication primarily documents intended Programming Interfaces that allow the customer to write programs to obtain the services of RACF.

This publication also documents information that is NOT intended to be used as Programming Interfaces of RACF.

This information is identified where it occurs, either by an introductory statement to a chapter or section or by the following marking:

NOT Programming Interface information

Data Area Name

End of NOT Programming Interface information

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About This Book

This book contains information about the Resource Access Control Facility (RACF*), which is part of the OS/390 Security Server. The Security Server has these components:

- RACF
- OS/390 UNIX DCE Security Server
- OS/390 Firewall Technologies
- Lightweight Directory Access Protocol (LDAP) Server

For information about these components, see the books related to these components.

This book contains graphic presentations of data areas used by RACF.

Who Should Use This Book

This book is for programmers who need specific information about RACF data areas for their programs or for use in diagnosing, modifying, or tuning RACF. Users of this book should have a working knowledge of RACF functions.

How To Use This Book

The data areas are in alphanumeric sequence by data area acronym. The acronyms are derived by removing the first three characters of the full data area name *and* the next character too, if it is P. Each data area has up to three sections:

- Header
- Data area map
- Cross reference, if the data area map is long enough.

The Header

The header includes some or all of the following information:

Common Name:	The descriptive name of the data area.
Macro ID:	The name of the mapping macro for the data area. Mapping macros can be issued in programs to generate a copy of the data area.
DSECT Name:	The name of the DSECT (dummy control section) created by the mapping macro.
Owning Component:	The component name and component identifier in parentheses.
Eye-Catcher ID:	The character-string identifier of the eye catcher (sometimes called the control block ID) within the mapping macro. The offset and length of the eye catcher are also included.
Storage Attributes:	The storage attributes of the data area, including the following: <ul style="list-style-type: none">Main Storage: The central storage attributes of the data area.Virtual Storage: The virtual storage attributes of the data area.Auxiliary Storage: The spool storage attributes of the data area.Subpool and Key: The subpool is the area of virtual storage that contains the data area. The key is the storage protection key for the storage represented by the data area.
Size:	The size of the data area in decimal bytes.
Created by:	The module, macro, or component whose use creates the data area.
Pointed to by:	The registers or data area fields that contain the address of the data area.
Serialization:	The method used to ensure that one user does not update a data area that is being updated or used by another user. The most common methods used for serialization are: <ul style="list-style-type: none">• Lock or locks• ENQ and DEQ macros

- Compare and Swap (CS) instruction.

Function: A brief description of the use of the data area.

Data Area Map

| Each data area is described field by field. The field descriptions shown in this publication are intended as the primary sources
| of such information. These field descriptions may differ from those found in the programming code.

Here is an example of the field descriptions for the ASCB data area:

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	384	ASCB	
0	(0)	CHARACTER		ASCBEGIN	Beginning of ASCB
0	(0)	CHARACTER	4	ASCBASCB	Acronym in EBCDIC -ASCB-
4	(4)	ADDRESS	4	ASCBFWDP	Address of next ASCB on ASCB ready queue

For each field in the data area, the data area map provides the following information:

Offsets The address of the field, shown in both decimal (DEC) and hexadecimal (HEX in parentheses), relative to the beginning of the data area.

Type The kind of program data defined for this field, as follows:

Type	Description
A-ADDRESS	A-type address constant
BAL STMT	Instruction
BITSTRING	Bitstring constant
CHARACTER	Character value
DECIMAL	Decimal value
FIXED	Arithmetic signed or unsigned value
FLOATING	Floating-point binary value
HEX	Hexadecimal value
OFFSET	Q-type address constant
PACKED	Packed decimal value
S-ADDRESS	S-type address constant
SIGNED	Arithmetic signed value
STRUCTURE	Level 1 control block name
UNSIGNED	Unsigned value
V-ADDRESS	V-type address constant
Y-ADDRESS	Y-type address constant
ZONED	Zoned decimal value

Len The size of the field in decimal bytes.

Name (Dim) The name of the field, bit, or mask.

Bit or mask names are preceded by a description of bit position and value, as follows:

1...	Refers to bit 0.
.... ..11	Refers to bits 6 and 7.
...1	Refers to bit 3.
11.. 1111	Refers to bits 0, 1, 4, 5, 6, and 7.

Description A description of the purpose or meaning of the field, bit, or mask.

Cross Reference

For each data area with more than 25 fields, cross reference shows the following information:

Name	The name of the field, bit, or mask.
Hex Offset	The hexadecimal offset of the field into the data area. For bits, the hexadecimal offset of the field containing the bit.
Hex Value	Hexadecimal values are shown only for bits. The hexadecimal value shown implies the position of the bit in the field containing the bit.
Level	Level of the PL/AS declaration for that field.

Bit TCBACTIV in the TCB data area illustrates how to use the hexadecimal value. In the TCB data area, cross reference for the TCBACTIV bit looks like this:

<u>Name</u>	<u>Hex Offset</u>	<u>Hex Value</u>	<u>Level</u>
TCBACTIV	F0	80	2

In the data area map of the TCB, the TCBACTIV bit appears like this:

```
240 (F0) FIXED 4 TCBXSCT Dispatcher intersect control word
240 (F0) BITSTRING 1 TCBXSCT1 Flag byte (MDC323)
```

<u>Offsets</u>			<u>Len</u>		
<u>Dec</u>	<u>Hex</u>	<u>Type</u>		<u>Name (Dim)</u>	<u>Description</u>
		1... ..		TCBACTIV	X'80' bit on means this TCB...

X'F0' is the offset of field TCBXSCT into the TCB. TCBXSCT is a four-byte field, which contains a one-byte field named TCBXSCT1. Both TCBXSCT and TCBXSCT1 have the same offset. The first bit in both fields is named TCBACTIV. Ignoring the other bits in the field TCBXSCT1, if the TCBACTIV bit is on, the value of field TCBXSCT1 would be 1000 0000, which is equivalent to X'80'. This value (X'80') is shown both in the description in the data area map and in the column of the cross reference.

Where to Find More Information

Where necessary, this book references information in other books. For complete titles and order numbers for all products that are part of OS/390, see *OS/390 Information Roadmap*.

Softcopy Publications

The OS/390 Security Server (RACF) library is available on the following CD-ROMs. The CD-ROM collections include the IBM Library Reader, a program that enables customers to read the softcopy books.

- The *OS/390 Security Server (RACF) Information Package*, SK2T-2180
This softcopy collection kit contains the OS/390 Security Server (RACF) library. It also contains the RACF/MVS Version 2 product libraries, the RACF/VM 1.10 product library, product books from the OS/390 and VM collections, International Technical Support Organization (ITSO) books (red books), and Washington System Center (WSC) books (orange books) that contain substantial amounts of information related to RACF. The kit does not contain any licensed publications. By using this CD-ROM, you have access to RACF-related information from IBM products such as OS/390, VM, CICS, and NetView without maintaining shelves of hardcopy documentation or handling multiple CD-ROMs. To get more information on the *OS/390 Security Server (RACF) Information Package*, see "How to Get Your RACF CD" on page 179.
- The *OS/390 Collection Kit*, SK2T-6700
This softcopy collection contains a set of OS/390 and related product books. This kit contains unlicensed books.
- The *Online Library Omnibus Edition MVS Collection Kit*, SK2T-0710
This softcopy collection contains a set of key MVS and MVS-related product books. It also includes the RACF Version 2 product libraries. *OS/390 Security Server (RACF) Messages and Codes* is also available as part of *Online Library Productivity Edition Messages and Codes Collection*, SK2T-2068.

- | • The *IBM S/390 Redbooks Collection*, SK2T-2177
- | This softcopy collection contains a set of S/390 redbooks.

| **The Online Message Facility (OMF)**

| The Online Message Facility (OMF) is an OS/2 program that provides online access to information from BookManager softcopy books. OMF helps users diagnose problems without interrupting their tasks. Users can retrieve the descriptions of RACF messages by clicking on a message number in a Communications Manager emulator window. Additional information about OMF available on CD-ROM. For information about the CD-ROM, see "Softcopy Publications" on page ix.

RACF Courses

The following RACF classroom courses are available:

- *Basics of OS/390 Security Server (RACF) Administration*, H3817
- *Effective RACF Administration*, H3927
- *Exploiting the Features of OS/390 Security Server (RACF)*, H4020
- *Implementing RACF Security for CICS/ESA*, H3992

IBM provides a variety of educational offerings for RACF. For more information on classroom courses and other offerings, do any of the following:

- See your IBM representative
- | • Read *Enterprise System Training Solutions*, GR28-5467
- Call 1-800-IBM-TEACH (1-800-426-8322)

IBM Systems Center Publications

IBM systems centers produce "red" and "orange" books that can be helpful in setting up and using RACF.

These books have not been subjected to any formal review nor have they been checked for technical accuracy, but they represent current product understanding (at the time of their publication) and provide valuable information on a wide range of RACF topics. They are not shipped with RACF. You must order them separately. A selected list of these books follows:

- *Systems Security Publications Bibliography*, G320-9279
- *Elements of Security: RACF Overview - Student Notes*, GG24-3970
- *Elements of Security: RACF Installation - Student Notes*, GG24-3971
- *Elements of Security: RACF Advanced Topics - Student Notes*, GG24-3972
- | • *MVS/ESA and RACF Version 1 Release 9 Security Implementation Guide*, GG24-3585
- *RACF Version 2 Release 2 Technical Presentation Guide*, GG24-2539
- *RACF Version 2 Release 2 Installation and Implementation Guide*, SG24-4580
- *Enhanced Auditing Using the RACF SMF Data Unload Utility*, GG24-4453
- *RACF Macros and Exit Coding*, GG24-3984
- *RACF Support for Open Systems Technical Presentation Guide*, GG26-2005
- *DFSMS and RACF Usage Considerations*, GG24-3378
- *Introduction to System and Network Security: Considerations, Options, and Techniques*, GG24-3451
- *Network Security Involving the NetView Family of Products*, GG24-3524
- *System/390 MVS Sysplex Hardware and Software Migration*, GC28-1210
- *Secured Single Signon in a Client/Server Environment*, GG24-4282
- *Tutorial: Options for Tuning RACF*, GG22-9396
- *OS/390 Security Server Audit Tool and Report Application*, SG24-4820

Other books are available, but they are not included in this list, either because the information they present has been incorporated into IBM product manuals, or because their technical content is outdated.

Other Sources of Information

IBM provides customer-accessible discussion areas where RACF may be discussed by customer and IBM participants. Other information is available through the Internet.

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| endorsement of these sites. IBM accepts no responsibility for the content or use of non-IBM Web sites specifically mentioned in
| this publication or accessed through an IBM Web site that is mentioned in this publication.

IBM Discussion Areas

Two discussion areas provided by IBM are the MVS_RRACF discussion and the SECURITY discussion.

- **MVS_RRACF**

MVS_RRACF is available to customers through IBM's TalkLink offering. To access MVS_RRACF from TalkLink:

1. Select S390 (the S/390 Developers' Association).
2. Use the fastpath keyword: MVS_RRACF.

- **SECURITY**

SECURITY is available to customers through IBM's DialIBM offering, which may be known by other names in various countries. To access SECURITY:

1. Use the CONFER fastpath option.
2. Select the SECURITY CFORUM.

Contact your IBM representative for information on TalkLink, DialIBM, or equivalent offerings for your country, and for more information on the availability of the MVS_RRACF and SECURITY discussions.

Internet Sources

The following resources are available through the Internet:

- **RACF home page**

You can visit the RACF home page on the World Wide Web using either of these addresses:

<http://www.s390.ibm.com/products/racf/racfhp.html>

or

<http://www.s390.ibm.com/racf>

- **Online redbooks**

These are available at:

<http://www.redbooks.ibm.com>

- **RACF-L discussion list**

Customers and IBM participants may also discuss RACF on the RACF-L discussion list. RACF-L is not operated or sponsored by IBM; it is run by the University of Georgia.

To subscribe to the RACF-L discussion so you can receive postings, send a note to:

listserv@uga.cc.uga.edu

Include the following line in the body of the note, substituting your first name and last name as indicated:

subscribe racf-l *first_name last_name*

To post a question or response to RACF-L, send a note to:

racf-1@uga.cc.uga.edu

Include an appropriate Subject: line.

- **Sample code**

You can get sample code, internally-developed tools, and exits to help you use RACF. All this code works in our environment, at the time we make it available, but is not officially supported. Each tool or sample has a README file that describes the tool or sample and any restrictions on its use.

To retrieve this code from a Web browser, visit the RACF home page and locate the topic “RACF sample materials”. From there, you can click on the tool you want to view or download.

The code is also available from **ftp.s390.ibm.com** through **anonymous ftp**.

To get access:

1. Log in as user **anonymous**.
2. To find the subdirectories that contain the sample code, change the directory as follows:

```
cd os390\racf
```

An announcement will be posted on RACF-L, MVSRACF, and SECURITY CFORUM whenever something is added.

Note: Some Web browsers and some ftp clients (especially those using a graphical interface) might have problems using **ftp.s390.ibm.com** because of inconsistencies in the way they implement the ftp protocols. If you have problems, you can try the following:

- Try to get access by using a Web browser and the links from the RACF home page, as shown above.
- Use a different ftp client. If necessary, use a client based on command line interfaces instead of graphical interfaces.
- If your ftp client has configuration parameters related to remote system type, configure it as UNIX instead of MVS.

Restrictions

Because the sample code and tools are not officially supported,

- There are no guaranteed enhancements.
- No APARs can be accepted.

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- Order or inquire about IBM publications
- Resolve any software manufacturing or delivery concerns
- Activate the program reorder form to provide faster and more convenient ordering of software updates

See “How to Get Your RACF CD” on page 179 for information about the *OS/390 Security Server (RACF) Information Package*.

Summary of Changes

| **Summary of Changes**
| **for SY27-2640-05**
| **OS/390 Version 2 Release 6**

| This edition contains information previously presented in *OS/390 Security Server (RACF) Data Areas*, SY27-2604-04, which supports OS/390 Version 2 Release 5.

| Vertical lines to the left of the text indicate technical changes or additions to this information.

| **New Information**

- | • ACEE
 - | – Bit ACEETSKP added to indicate a task level process for OS/390 UNIX multiprocess/multiuser support.
- | • AFC
 - | – Function code AFC_LOGIN added to audit when ck_priv is called using OS/390 UNIX functions.
- | • COMP
 - | – Three fields added to support transportable security environment enhancements and the __login OS/390 UNIX System Services function.
 - | - INTA_ENVR_IN@
 - | - INTA_ENVR_OUT@
 - | - INTA_OUTA_STOR@
 - | – Constants added to describe the new function codes needed for automatic registration of digital certificates in support of APARS OW31933 and OW31934.
 - | – Fifteen function codes added as constants (6 to 20) in support of TME 10.
- | • FAST
 - | – Bit FASTENTX added to FASTLOGO to support network qualified names.
 - | – Field FASTENVR added for transportable security environment enhancements as part of APAR OW32598.
- | • PWXP
 - | – Field PWXPLCD4 added in support of Year 2000.
- | • RCVT
 - | – Field RCVTTLPS added to indicate task level ACEE support available for a callable service as part of OS/390 UNIX multiprocess/multiuser support.
- | • RFXP
 - | – Bit RFXNENTX added to RFXFLAG2 to support network qualified names.
 - | – Field RFXPENVR added for transportable security environment enhancements in support of APAR OW32597.
- | • RIPL
 - | – Structure INITPON added to support network qualified names.
- | • RIXP
 - | – Pointer RIXPOENP added to support network qualified names.
 - | – Field RIXPLCD4 added to support Year 2000.
 - | – Note about VLF ACEE caching added in response to APAR OW30289.
- | • RUTKN
 - | – Bit TOKNETF and field TOKNETW added to support network qualified names.
- | • RXTL
 - | – Structure EXTENVX added to support transportable security environment enhancements.
- | • SGNPL

- | – Field SIGPOENP added to support network qualified names.
- | • SECUR
- | – Data area SECUR added to map the identity of the user associated with a particular transaction.

| **Changed Information**

- | • CNST
- | – Description of field CNSTORML changed to support network qualified names.
- | • RCVT
- | – FMID changed to 2060.
- | • RCXP
- | – Description for field RCXRCODE changed in response to a request for publication change.
- | – Description for field RCXACEE changed in response to APAR OW30303.
- | • SGX1P
- | – Description of field SNGFPLU_ADDR changed to support network qualified names.

| This book includes terminology, maintenance and editorial changes, including the following:

- | • As part of the name change of OpenEdition to OS/390 UNIX System Services, occurrences of OpenEdition have been changed to OS/390 UNIX System Services or its abbreviated name, OS/390 UNIX where appropriate. OpenEdition may continue to appear in messages, panel text, and other code locations.

**Summary of Changes
for SY27-2640-04
OS/390 Version 2 Release 5**

This edition contains the following changes:

- It adds the field INTA_CERTIFICATE@ to the COMP data area for digital certificate support.
- It adds the new flag RCVT4INF to the RCVT data area for Year 2000 support.
- It adds the new field CGRPGCHG to the CGRP data area for support of RACF APAR OW28907.

Each technical change is indicated by a vertical line to the left of the change.

**Summary of Changes
for SY27-2640-03
OS/390 Version 2 Release 4**

This edition contains the following changes:

- It adds the DSECT ADMN to the COMP data area for TME 10 administrative support.
- It adds function code 39, R_admin, to the FC data area for TME 10 administrative support.
- It adds FASTPLEN, FASTPVER, FASTALET, and FASTLOGS to the FAST data area.
- It adds RFXPLEN, RFXPVERS, RFXALET, and RFXLOGS to the RFXP data area.
- It adds service update information to the ACEE, AFC, and RCVT data areas.
- It changes release related information in both the SAFFP and RCVT data areas.

Each technical change is indicated by a vertical line to the left of the change.

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DSDT: Data Set Descriptor Table	52
EVXP: RACF Command Exit Parameter List	59
FAST: RACROUTE REQUEST=FASTAUTH Parameter List (Request Section)	62
FC: OS/390 UNIX System Services Security Function Code Table	64
FXAP: RACROUTE REQUEST=FASTAUTH Extended Function Exit Parameter List	66
GAPL: Generic Anchor Table Entry	67
GRPF: In-Storage Generic Profile Map	70
IFSP: OS/390 UNIX System Services File Security Packet	73
IISP: OS/390 UNIX System Services IPC Security Packet	75
ISP: RACF In-Storage Profile	76
OUSP: initUSP Output Parameter List	81
PWXP: New Password Exit Parameter List	83
RCVT: RACF Communication Vector Table	86
RCXP: RACROUTE REQUEST=AUTH Exit Parameter List	95
RDDFL: RACROUTE REQUEST=DEFINE Parameter List (Request Section)	101
RDXP: RACROUTE REQUEST=DEFINE Exit Parameter List	104
RFXP: RACROUTE REQUEST=FASTAUTH Exit Parameter List	112
RIPL: RACROUTE REQUEST=TOKENBLD/VERIFY/VERIFYX Parameter List (Request Section)	114
RIXP: RACROUTE REQUEST=VERIFY/VERIFYX Exit Parameter List	119
RLST: RACROUTE REQUEST=LIST Parameter List (Request Section)	126
RLX1P: RACROUTE REQUEST=LIST Exit Parameter List	128
RLX2P: RACROUTE REQUEST=LIST Selection Exit Parameter List	133
RNG: RACF Database Range Table	137
RRPF: Resident Profile Map	138
RSMXP: RACF Report Writer Selection Exit Parameter List	142
RUTKN: Resource/User Security Token	144
RXTL: RACROUTE REQUEST=EXTRACT Parameter List (Request Section)	147
RXTW: RACROUTE REQUEST=EXTRACT Result Area Mapping	150
SAFP: SAF Router Parameter List	153
SAFR: Number of OS/390 UNIX System Services Callable Services	157
SAFV: SAF Router Vector Table	158
SECUR: OS/390 Security Context	160
SGNPL: RACROUTE REQUEST=SIGNON Parameter List (Request Section)	161
SGX1P: RACROUTE REQUEST=SIGNON Parameter List Mapping	163
STAT: RACROUTE REQUEST=STAT Parameter List (Request Section)	164
TSRV: RACROUTE REQUEST=TOKENMAP/TOKENXTR Parameter List (Request Section)	165
WORK: OS/390 UNIX System Services Work Area for SAF and RACF	166

ACEE: Accessor Environment Element

NOT Programming Interface Information

The following fields are Not Programming Interface information:

ACEEAMP
 ACEEMDLS
 ACEECGRP
 ACEECLCP
 ACEEGATA
 ACEEPADS
 ACEE3PTY
 ACEEOCOX
 ACEEPTDS

End of NOT Programming Interface Information

Common Name: Accessor Environment Element (ACEE)
Macro ID: IHAACEE
DSECT Name: ACEE
Owning Component: Resource Access Control Facility (SC1BN)
Eye-Catcher ID: ACEE (Offset: 0, Length: 4)
Storage Attributes: Subpool 255 (or as specified by the issuer of RACROUTE REQUEST=VERIFY)
 Key 0
 Residency May reside above 16M
Size: 168 bytes (does not include any data pointed to by ACEE)
Created by: RACF or MVS's system authorization facility (SAF), depending on the parameters specified on RACROUTE REQUEST=VERIFY
Pointed to by: A field supplied by the issuer of RACROUTE REQUEST=VERIFY. Or, for MVS only: ASXBSENV or TCBSSENV. ACEEs pointed to by ASXBSENV or TCBSSENV always reside below 16M.
Serialization: None
Function: Maps the ACEE; represents the authorities of a single accessor in the address space.

Notes:

1. If you use ACEEIEP, it must point to an area of storage you obtained using a GETMAIN. RACF frees this area when it frees the ACEE. For RACF to do this, the first word of the area must contain the subpool and the length of the area. The subpool appears in the high-order byte, and the length appears in the next 3 bytes.

If you do not conform to this requirement in your use of ACEEIEP, you must supply a RACINIT exit to free the area and set the ACEEIEP field to 0 when a caller issues a RACINIT DELETE. In certain situations, however, your exit is not called during RACF error recovery, and unpredictable results may occur. Therefore, IBM strongly recommends that you adhere to the specified requirements.

Examples of nonconforming use of ACEEIEP follow:

- a. ACEEIEP contains data, rather than a pointer.
- b. ACEEIEP contains a pointer, however the first word of the area pointed to by ACEEIEP does not contain the subpool and length information for the area.

c. ACEEIEP contains a pointer, and the first word of the area pointed to contains the subpool and length information for a data area that points to additional area obtained using GETMAIN.

This situation might not cause an abend, but it results in a failure to free the acquired data area.

If your use of ACEEIEP does not conform to the specified requirements, or if your data area contains any pointers to other data areas, you must provide an ACEE compression/expansion exit. See *OS/390 Security Server (RACF) System Programmer's Guide* for more information.

The area that ACEEIEP points to is retrieved with the ACEE. Before reusing ACEEIEP, installation code must process any existing area that ACEEIEP points to. A pointer to storage may be lost if installation code stores over ACEEIEP.

When reusing ACEEIEP, the storage for the new data that ACEEIEP points to should be in the same subpool as the ACEE. The ACEESP field of the ACEE contains the subpool of the ACEE. For more information about subpool use, see the *OS/390 MVS Assembler Services Guide*.

2. Within an IMS address space, ACEEAPTR is reserved for use by IMS during IMS initialization and signon.

3. Both ACEETRLV and ACEETRDA are 0 if one of the following conditions is met:

- The NODES class is active and a NODES profile of the form *submitnode.RUSER.userid* exists with a UACC of at least UPDATE.
- The POE's class is not active.
- Neither TERMID nor POE was specified.
- There is no matching profile.

If the level is not specified in the profile, ACEETRLV is 0 even when none of the conditions are met. Similarly, if the DATA is not specified in the profile, ACEETRDA is 0 even when none of the conditions are met.

4. Both ACEEAPLV and ACEEAPDA are 0 if one of the following conditions is met:

- The NODES class is active and a NODES profile of the form *submitnode.RUSER.userid* exists with a UACC of at least UPDATE.
- The APPL class is not active.
- APPL was not specified on the RACROUTE REQUEST=VERIFY.
- No matching profile exists.

If the level is not specified in the APPL profile, ACEEAPLV is 0 even when none of the conditions are met. Similarly, if the DATA is not specified in the profile, ACEEAPDA is 0 even when none of the conditions are met.

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	168	ACEE	Accessor environment element
0	(0)	CHARACTER	4	ACEEACEE	Acronym in EBCDIC -ACEE-
4	(4)	ADDRESS	4	ACEECORE	ACEE subpool and length
4	(4)	ADDRESS	1	ACEESP	ACEE subpool number
5	(5)	ADDRESS	3	ACEELEN	Length of ACEE
8	(8)	UNSIGNED	1	ACEEVRSN	Version = 1.
9	(9)	CHARACTER	3	*	Reserved
12	(C)	ADDRESS	4	ACEEIEP	Reserved for installation. If used, it must point to a one-byte subpool followed by a three-byte length.
16	(10)	ADDRESS	4	ACEEINST	User data address: Points to a one-byte length field followed by the installation data specified in the user profile. The length includes the one-byte length field. The address is zero if (1) no valid user ID was provided or (2) no data was present in the profile.
20	(14)	CHARACTER	9	ACEEUSER	User ID information
20	(14)	ADDRESS	1	ACEEUSRL	User ID length
21	(15)	CHARACTER	8	ACEEUSRI	Contains the valid RACF user ID unless (1) the user ID on the verify call was <i>"*BYPASS*"</i> for auditable work that bypasses authorization checking, or (2) no user ID was given so the field contains an <i>"*"</i> .
29	(1D)	CHARACTER	9	ACEEGRP	Group name information
29	(1D)	ADDRESS	1	ACEEGRPL	Group name length
30	(1E)	CHARACTER	8	ACEEGRPN	Valid connect group unless ACEEUSRI is <i>"*"</i> or <i>"*BYPASS*"</i> . For these two cases, ACEEGRPN is <i>"*"</i> .

ACEE

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
38	(26)	BITSTRING	1	ACEEFLG1	User flags
		1... ..		ACEESPEC	1 - Special attribute
		.1.. ..		ACEEADSP	1 - Automatic data security protection
		..1. ..		ACEEOPER	1 - Operations attribute
		...1 ..		ACEEAUDT	1 - Auditor attribute
		.... 1..		ACEELOGU	1 - User is to have most RACF functions logged
		.... .1..		*	Reserved
		.... ..1.		ACEEPRIV	1 - User is a started procedure with the privileged attribute
		.... ...1		ACEERACF	1 - RACF-defined user
39	(27)	BITSTRING	1	ACEEFLG2	Default universal access
		1... ..		ACEEALTR	1 - Alter authority to resource
		.1.. ..		ACEECNTL	1 - Control authority to resource
		..1. ..		ACEEUPDT	1 - Update authority to resource
		...1 ..		ACEEREAD	1 - Read authority to resource
		.... 1..		*	Reserved for compatibility
		.... .1..		*	Reserved
		.... ..1.		*	Reserved
		.... ...1		ACEENONE	1 - No authority to resource
40	(28)	BITSTRING	1	ACEEFLG3	Miscellaneous flags
		1... ..		ACEEGRPA	Access list of group DS to contain
		.1.. ..		ACEERASP	0 - User ID or 1 - Group name and user ID
		..1. ..		ACEECLNT	1 - If RACF address space
		...1 ..		ACEEACLT	1 - If unauthenticated client
		.... 1..		ACEETSKP	1 - If authenticated client
		.... .1..		*	1 - If task level process
		.... ..1.		*	Reserved
		.... ...1		*	Reserved
41	(29)	CHARACTER	3	ACEEDATE	Date of RACINIT
44	(2C)	CHARACTER	8	ACEEPROC	Name of started procedure or blanks if not started procedure
52	(34)	ADDRESS	4	ACEETRMP	Address that points to the terminal ID. The field is zero for non-terminal users.
56	(38)	BITSTRING	2	ACEEFLG4	Miscellaneous flags 2
		1... ..		*	Reserved
		.1.. ..		*	Reserved
		..1.		ACEEUATH	1 - User is authorized to define other users
		...1		*	Reserved
		.... 1...		ACEEDASD	1 - User is authorized to protect DASD volumes
		.... .1..		ACEETAPE	1 - User is authorized to protect tape volumes
		.... ..1.		ACEETERM	1 - User is authorized to protect terminals
56	(38)	BITSTRING	1	*	Reserved
58	(3A)	ADDRESS	1	ACEEAPLV	Application level: Contains the level value from the application profile.
59	(3B)	ADDRESS	1	ACEETRLV	POE level: Contains the level value from the general resource profile that protects the port of entry.
60	(3C)	ADDRESS	4	ACEETRDA	POE data address: Points to a one-byte length field followed by the installation data from the profile that protects the port of entry. The length includes the one-byte length field.
64	(40)	CHARACTER	8	ACEETRID	An eight-byte area containing the terminal ID. The name is left justified and padded on the right with blanks. This field is blank when (1) termid is not specified and (2) either the POE is not specified or the POE class is not terminal.
72	(48)	ADDRESS	4	ACEEAMP	Address first anchored model
76	(4C)	BITSTRING	4	ACEECLTH	User class authorizations - these bit positions are mapped by the class descriptor entries anchored off the RACF CVT
80	(50)	ADDRESS	4	ACEECLCP	Anchor for in-storage profile trees built by the RACLIST function
84	(54)	ADDRESS	4	ACEEAPTR	Address field reserved for application usage

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
88	(58)	CHARACTER	8	ACEEAPLN	Name of application to which user is connected, or blanks if no application specified
96	(60)	ADDRESS	4	ACEEAPDA	Application data address: Points to a one-byte length field followed by the data from the application profile. The length includes the one-byte length field.
100	(64)	ADDRESS	4	ACEEUNAM	Address of user name string. The first byte is a length field followed by the name string. The length includes the one-byte length field.
104	(68)	ADDRESS	4	ACEEMDLS	Address of the data set model name array. If array not obtained by RACINIT or RACROUTE REQUEST=VERIFY macro, it is zero.
108	(6C)	ADDRESS	4	ACEECGRP	Address of connect group table.
112	(70)	ADDRESS	4	ACEEGATA	Address of the generic anchor table
116	(74)	ADDRESS	4	ACEEFCGP	Address of table containing the list of groups this user ID is a member of. Built by RACINIT and used by FRACHECK, it is not automatically refreshed.
120	(78)	ADDRESS	4	ACEEDSLP	Address of the list of categories to which this user is allowed access
124	(7C)	ADDRESS	4	ACEEDAT4	Four-byte date field formatted ccyyddF where cc is 00 for years 1971-1999 or 01 for years 2000-2070.
128	(80)	ADDRESS	4	ACEEPADS	Address of the list of data sets accessed by controlled programs executed by this user.
132	(84)	UNSIGNED	1	ACEESLVL	Maximum security level accessible by this user
133	(85)	BITSTRING	1	ACEEFLG5	Miscellaneous flags
		1... ..		ACEEMODE	1 - ACEE mode is in 31-bit mode
		.1... ..		ACEEVMSK	0 - If ACEEPLCL is not zero, it points to a 128-bit mask
		..1.		ACEED4OK	1 - ACEEPLCL points to a 1024-bit mask
		...1		ACEEXNVR	1 - ACEEDAT4 contains data
		.... 1111		*	0 - ACEEDAT4 not used
134	(86)	CHARACTER	2	*	ENVR object created by another system
136	(88)	ADDRESS	4	ACEE3PTY	Reserved
140	(8C)	ADDRESS	4	ACEEPLCL	Reserved
144	(90)	CHARACTER	8	ACEESUID	Address of ACEE created by third-party RACHECK SVC processing
152	(98)	ADDRESS	4	ACEEOCOX	Pointer to extended class authorization mask, or 0
156	(9C)	ADDRESS	4	ACEEPTDS	Surrogate user ID (AUDIT)
160	(A0)	CHARACTER	4	*	Pointer to O.C.O. extend
					Pointer to first TDS table
					Reserve these four bytes so ACEE length is a multiple of 8.
164	(A4)	ADDRESS	4	ACEETOKP	Pointer to RUTKN data area

Constants

Len	Type	Value	Name	Description
1	DECIMAL	1	ACEEVR01	ACEE version number = 1.
1	DECIMAL	2	ACEEVR02	ACEE version number = 2.
1	DECIMAL	2	ACEE CURV	ACEE current version number.

ACEE

Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
ACEE	0		1	ACEEUATH	38	20	3
ACEEACEE	0		2	ACEEUNAM	64		2
ACEEACLT	28	10	3	ACEEUPDT	27	20	3
ACEEADSP	26	40	3	ACEEUSER	14		2
ACEEALTR	27	80	3	ACEEUSRI	15		3
ACEEAMP	48		2	ACEEUSRL	14		3
ACEEAPDA	60		2	ACEEVMSK	85	40	3
ACEEAPLN	58		2	ACEEVRSN	8		2
ACEEAPLV	3A		2	ACEEXNVR	85		3
ACEEAPTR	54		2	ACEE3PTY	88		2
ACEEAUDT	26	10	3				
ACEECGRP	6C		2				
ACEECLCP	50		2				
ACEECLNT	28	20	3				
ACEECLTH	4C		2				
ACEECNTL	27	40	3				
ACEECORE	4		2				
ACEEDASD	38	08	3				
ACEEDATE	29		2				
ACEEDAT4	7C		2				
ACEED4OK	85	20	3				
ACEEDAT4	7C		2				
ACEEFCGP	74		2				
ACEEFLG1	26		2				
ACEEFLG2	27		2				
ACEEFLG3	28		2				
ACEEFLG4	38		2				
ACEEFLG5	85		2				
ACEEGATA	70		2				
ACEEGRP	1D		2				
ACEEGRPA	28	80	3				
ACEEGRPL	1D		3				
ACEEGRPN	1E		3				
ACEEIEP	C		2				
ACEEINST	10		2				
ACEELEN	5		3				
ACEELOGU	26	08	3				
ACEEMDLS	68		2				
ACEEMODE	85	80	3				
ACEENONE	27	01	3				
ACEEOCOX	98		2				
ACEEOPER	26	20	3				
ACEEPADS	80		2				
ACEEPLCL	8C		2				
ACEEPRIV	26	02	3				
ACEEPROC	2C		2				
ACEEPTDS	9C		2				
ACEERACF	26	01	3				
ACEERASP	28	40	3				
ACEEREAD	27	10	3				
ACEESLVL	84		2				
ACEESP	4		3				
ACEESPEC	26	80	3				
ACEESUID	90		2				
ACEETAPE	38	04	3				
ACEETERM	38	02	3				
ACEETOKP	A4		2				
ACEETRDA	3C		2				
ACEETRID	40		2				
ACEETRLV	3B		2				
ACEETRMP	34		2				
ACEETSKP	28	08	3				

ACHKL: RACROUTE REQUEST=AUTH Parameter List (Request Section)

Common Name: Request-specific portion of the RACROUTE REQUEST=AUTH parameter list

Macro ID: ICHACHKL

DSECT Name: ACHKLIST

Owning Component: Resource Access Control Facility (SC1BN)

Eye-Catcher ID: None

Storage Attributes: Subpool Determined by caller
Key Determined by caller
Residency Determined by caller

Size: Varies with the RELEASE= parameter specified

Created by: RACROUTE REQUEST=AUTH macro

Pointed to by: Address of SAFP plus the offset in SAFPRACP

Serialization: None

Function: Maps the request-specific portion of the parameter list passed to the RACROUTE REQUEST=AUTH routine

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	32	ACHKLIST	RACHECK PARAMETER LIST
0	(0)	ADDRESS	4	ACHKINSW	ADDRESS INSTALLATION DATA
0	(0)	UNSIGNED	1	ACHKLENG	LENGTH OF PARAMETER LIST
1	(1)	ADDRESS	3	ACHKINST	ADDRESS INSTALLATION DATA
4	(4)	SIGNED	4	ACHKENTW	ENTITY ADDRESS WORD
4	(4)	UNSIGNED	1	ACHKFLG1	FIRST FLAGS BYTE
		1...		ACHKRFI	RACFIND PARAMETER GIVEN
		.1..		ACHKRFIY	RACFIND=YES
		..1.		ACHKENX	ENTITYX IS SPECIFIED
		...1		ACHKDSTV	DSTYPE=V
		.... 1...		ACHK31IN	31-BIT-ADDRESS LIST INDICATOR
		.... .11.		ACHKLOGS	LOG=NOSTAT (BOTH ON)
		.... .1..		ACHKLOGF	LOG=NOFAIL
		.... ..1.		ACHKLOGN	LOG=NONE
		.... ...1		ACHKCSA	ENTITY=(ADDR,CSA)
5	(5)	ADDRESS	3	ACHKENT	ENTITY NAME ADDRESS
8	(8)	SIGNED	4	ACHKCLNW	CLASS NAME ADDRESS WORD
8	(8)	UNSIGNED	1	ACHKFLG2	SECOND FLAGS BYTE
		1...		ACHKTALT	ATTR=ALTER
		.111		*	RESERVED
		.... 1...		ACHKTCTL	ATTR=CONTROL
		.... .1..		ACHKTUPD	ATTR=UPDATE
		.... ..1.		ACHKTRD	ATTR=READ
		.... ...1		*	RESERVED
9	(9)	ADDRESS	3	ACHKCLN	CLASS NAME ADDRESS
12	(C)	SIGNED	4	ACHKVOLW	VOLSER ADDRESS WORD
12	(C)	UNSIGNED	1	ACHKFLG3	THIRD FLAGS BYTE
		1...		ACHKTAPE	DSTYPE=T
		.1..		ACHKMDEL	DSTYPE=M
		..1.		ACHKPRF	PROFILE ADDR GIVEN
		...1		*	RESERVED
		.... 1...		ACHKVOL	VOLSER PARM SPECIFIED
		.... .1..		ACHKGEN	GENERIC=YES
		.... ..1.		ACHKPRI	PRIVATE=YES
		.... ...1		*	RESERVED
13	(D)	ADDRESS	3	ACHKVOLS	VOLSER ADDRESS

ACHKL

Offsets			Len		
Dec	Hex	Type		Name (Dim)	Description
16	(10)	ADDRESS	4	ACHKOVOL	OLD VOLSER ADDRESS
20	(14)	ADDRESS	4	ACHKAPPL	APPL NAME ADDRESS
24	(18)	ADDRESS	4	ACHKACEE	ACEE ADDRESS
28	(1C)	ADDRESS	4	ACHKOWNR	OWNER ADDRESS.
32	(20)	CHARACTER		ACHKEND	END OF V1.4 LIST

Offsets			Len		
Dec	Hex	Type		Name (Dim)	Description
32	(20)	STRUCTURE	16	ACHK31	31-BIT-ADDRESS SAF EXTENSION
32	(20)	ADDRESS	4	ACHKIN31	31-BIT INSTALLATION DATA ADDRESS
36	(24)	ADDRESS	4	ACHKENTX	ENTITYX NAME ADDRESS
36	(24)	ADDRESS	4	ACHKEN31	ENTITY NAME/RESOURCE PROFILE ADDRESS
40	(28)	ADDRESS	4	ACHKCL31	CLASS NAME ADDRESS
44	(2C)	ADDRESS	4	ACHKVS31	VOLSER ADDRESS
48	(30)	CHARACTER		ACHK31EN	END OF SAF EXTENSION

Offsets			Len		
Dec	Hex	Type		Name (Dim)	Description
48	(30)	STRUCTURE	8	ACHK15	RACF 1.5 EXTENSION
48	(30)	ADDRESS	4	ACHKACC1	ACCLVL ADDRESS (1ST PART)
52	(34)	ADDRESS	4	ACHKACC2	ACCLVL ADDRESS (2ND PART)
56	(38)	CHARACTER		ACHK15EN	END OF V1.5 EXTENSION

Offsets			Len		
Dec	Hex	Type		Name (Dim)	Description
56	(38)	STRUCTURE	4	ACHK17	RACF 1.7 EXTENSION
56	(38)	UNSIGNED	2	ACHKFSEQ	FILE SEQUENCE NO
58	(3A)	UNSIGNED	1	ACHKFLGT	TAPE FLAG BYTE
		11..		ACHKTLBL	TAPELBL SPECIFIED B'00'=STD B'10'=BLP B'01'=NL
		..11 1111		*	RESERVED
59	(3B)	UNSIGNED	1	ACHKFLG4	FOURTH FLAG BYTE
		1...		ACHKEOS	STATUS=ERASE SPECIFIED
		.1..		ACHKEVD	STATUS=EVERDOM SPECIFIED
		..1.		ACHKWRON	STATUS=WRITEONLY SPECIFIED
		...1		ACHKACCS	STATUS=ACCESS SPECIFIED
		.... 1111		*	RESERVED
60	(3C)	CHARACTER		ACHK17EN	END OF RACF 1.7 EXTENSION

Offsets			Len		
Dec	Hex	Type		Name (Dim)	Description
60	(3C)	STRUCTURE	8	ACHK18	RACF 1.8 EXTENSION
60	(3C)	ADDRESS	4	ACHKUSID	USERID POINTER
64	(40)	ADDRESS	4	ACHKGPID	GROUPID POINTER
68	(44)	CHARACTER		ACHK18EN	END OF 1.8 EXTENSION

Offsets			Len		
Dec	Hex	Type		Name (Dim)	Description
68	(44)	STRUCTURE	4	ACHK18X	RACF 1.8X EXTENSION
68	(44)	ADDRESS	4	ACHKDDPR	DDNAME POINTER
72	(48)	CHARACTER		ACHK8XEN	END OF 1.8X EXTENSION

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
72	(48)	STRUCTURE	20	ACHK19	RACF 1.9 EXTENSION
72	(48)	ADDRESS	4	*	RESERVED
76	(4C)	ADDRESS	4	ACHKUTOK	UTOKEN POINTER
80	(50)	ADDRESS	4	ACHKRTOK	RTOKEN POINTER
84	(54)	ADDRESS	4	ACHKLSTR	LOGSTR POINTER
88	(58)	ADDRESS	4	ACHKRCVR	RECVR POINTER
92	(5C)	CHARACTER		ACHK19EN	END OF 1.9 EXTENSION

Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
ACHKACCS	3B	10	3	ACHKUSID	3C		2
ACHKACC1	30		2	ACHKUTOK	4C		2
ACHKACC2	34		2	ACHKVOL	C	08	4
ACHKACEE	18		2	ACHKVOLS	D		3
ACHKAPPL	14		2	ACHKVOLW	C		2
ACHKCLN	9		3	ACHKVS31	2C		2
ACHKCLNW	8		2	ACHKWRON	3B	20	3
ACHKCL31	28		2	ACHK15	30		1
ACHKCSA	4	01	4	ACHK15EN	38		2
ACHKDDPR	44		2	ACHK17	38		1
ACHKDSTV	4	10	4	ACHK17EN	3C		2
ACHKEND	20		2	ACHK18	3C		1
ACHKENT	5		3	ACHK18EN	44		2
ACHKENTW	4		2	ACHK18X	44		1
ACHKENTX	24		2	ACHK19	48		1
ACHKENX	4	20	4	ACHK19EN	5C		2
ACHKEN31	24		3	ACHK31	20		1
ACHKEOS	3B	80	3	ACHK31EN	30		2
ACHKEVD	3B	40	3	ACHK31IN	4	08	4
ACHKFLGT	3A		2	ACHK8XEN	48		2
ACHKFLG1	4		3				
ACHKFLG2	8		3				
ACHKFLG3	C		3				
ACHKFLG4	3B		2				
ACHKFSEQ	38		2				
ACHKGEN	C	04	4				
ACHKGPID	40		2				
ACHKINST	1		3				
ACHKINSW	0		2				
ACHKIN31	20		2				
ACHKLENG	0		3				
ACHKLIST	0		1				
ACHKLOGF	4	04	5				
ACHKLOGN	4	02	5				
ACHKLOGS	4	06	4				
ACHKLSTR	54		2				
ACHKMDEL	C	40	4				
ACHKOVOL	10		2				
ACHKOWNR	1C		2				
ACHKPRF	C	20	4				
ACHKPRI	C	02	4				
ACHKRCVR	58		2				
ACHKRFI	4	80	4				
ACHKRFIY	4	40	4				
ACHKRTOK	50		2				
ACHKTALT	8	80	4				
ACHKTAPE	C	80	4				
ACHKTCTL	8	08	4				
ACHKTLBL	3A	C0	3				
ACHKTRD	8	02	4				
ACHKTUPD	8	04	4				

ACXP: ACEE Expansion/Compression Exit Parameter List

Common Name: RACF ACEE expansion/compression exit parameter list mapping
Macro ID: IRRACXP
DSECT Name: None
Owning Component: Resource Access Control Facility (XXH00)
Eye-Catcher ID: None
Storage Attributes: Subpool Determined by caller
 Key Determined by caller
 Residency Determined by caller
Size: N/A
Created by: N/A
Pointed to by: N/A
Serialization: None
Function: Maps the parameter list passed to user exits IRRACX01 and IRRACX02

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE		IRRACX01_PARMLIST	
0	(0)	SIGNED	4	IRRACX01_OPERATION	Operation: stash or recall
		.... ..1		STASH_OPERATION	X'00000001' Stash: IRRACX01 may build and return range table
		.... ..1.		RECALL_OPERATION	X'00000002' Recall: Range table is provided via parameter IRRACX01_TABLE_PTR
4	(4)	ADDRESS	4	IRRACX01_ACEEPTR	Address of ACEE
8	(8)	ADDRESS	4	IRRACX01_TABLE_PTR	Address of range table

 Format of the range table supplied to or to be supplied by exit IRRACX01:

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE		RANGE_TABLE	
0	(0)	SIGNED	4	RANGE_COUNT	Number of ranges in the table
4	(4)	SIGNED	4	RANGE_SUBPOOL	Subpool in which the table resides
8	(8)	SIGNED	4	FIRST_RANGE (0)	Array of 1 or more ranges of form:

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE		DATA_RANGE	
0	(0)	ADDRESS	4	RANGE_START	Starting virtual address of data
4	(4)	ADDRESS	4	RANGE_END	Ending virtual address of data
8	(8)	SIGNED	4	NEXT_RANGE (0)	

Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
FIRST_RANGE	8		2	IRRACX01_TABLE_PTR	8		2
IRRACX01_ACEEPTR	4		2	NEXT_RANGE	8		2
IRRACX01_OPERATION	0		2	RANGE_COUNT	0		2

Name	Hex Offset	Hex Value	Level
RANGE_END	4		2
RANGE_START	0		2
RANGE_SUBPOOL	4		2
RECALL_OPERATION	0	2	2
STASH_OPERATION	0	1	2

AFC: OS/390 UNIX System Services Audit Function Codes

Common Name:	OS/390 UNIX System Services common audit function codes
Macro ID:	IRRPAFC
DSECT Name:	N/A
Owning Component:	Resource Access Control Facility (SC1BN)
Eye-Catcher ID:	None (constants only)
Storage Attributes:	Subpool N/A Key Any Residency Invoker's primary address space
Size:	Determined by release (see the mapping)
Created by:	N/A
Pointed to by:	Constant data only
Serialization:	N/A
Function:	Contains the constants for the OS/390 UNIX System Services audit function codes

Constants

Len	Type	Value	Name	Description
2	DECIMAL	1	AFC_ACCESS	Check file accessibility
2	DECIMAL	2	AFC_CHAUDIT_U	Change user audit options
2	DECIMAL	3	AFC_CHDIR	Change current working directory
2	DECIMAL	4	AFC_CHMOD	Change file modes
2	DECIMAL	5	AFC_CHOWN	Change owner and group of file
2	DECIMAL	6	AFC_DUB	Initialize a process
2	DECIMAL	7	AFC_EXEC	Execute a file
2	DECIMAL	8	AFC_FCHAUDIT_U	Change user audit options when file is open
2	DECIMAL	9	AFC_FCHMOD	Change file modes when file is open
2	DECIMAL	10	AFC_FCHOWN	Change owner and group of file when open
2	DECIMAL	11	AFC_GETCWD	Get current working directory
2	DECIMAL	12	AFC_GETPSENT	Get process entry
2	DECIMAL	13	AFC_KILL	Signal a process
2	DECIMAL	14	AFC_LINK	Link to a file
2	DECIMAL	15	AFC_LSTAT	Get file status; don't resolve ending symlink
2	DECIMAL	16	AFC_MKDIR	Make a directory
2	DECIMAL	17	AFC_MKNOD	Make a file node
2	DECIMAL	18	AFC_MOUNT	Mount a file system
2	DECIMAL	19	AFC_OPEN	Open a file
2	DECIMAL	20	AFC_OPENDIR	Open a directory
2	DECIMAL	21	AFC_PATHCONF	Get configurable path name variables
2	DECIMAL	22	AFC_PTRACE	Debug a process
2	DECIMAL	23	AFC_READLINK	Read a symbolic link
2	DECIMAL	24	AFC_RENAME	Rename a file
2	DECIMAL	25	AFC_RMDIR	Remove a directory
2	DECIMAL	26	AFC_SETEGID	Set effective GID
2	DECIMAL	27	AFC_SETEUID	Set effective UID
2	DECIMAL	28	AFC_SETGID	Set real/saved and/or effective GID
2	DECIMAL	29	AFC_SETUID	Set real/saved and/or effective UID
2	DECIMAL	30	AFC_STAT	Get file status
2	DECIMAL	31	AFC_SYMLINK	Create a symbolic link
2	DECIMAL	32	AFC_UNLINK	Remove directory entries (Delete a file)
2	DECIMAL	33	AFC_UNMOUNT	Unmount a file system
2	DECIMAL	34	AFC_UTIME	Set file access/modification times
2	DECIMAL	35	AFC_UNDUB_EXIT	Terminate a process
2	DECIMAL	36	AFC_WRITE	Write to a file (Clear setid bits)

Len	Type	Value	Name	Description
2	DECIMAL	37	AFC_CHAUDIT_A	Change auditor audit options
2	DECIMAL	38	AFC_FCHAUDIT_A	Change auditor audit options when file is open
2	DECIMAL	39	AFC_LOOKUP	Path name resolution
2	DECIMAL	40	AFC_TTYNAME	Get path name of terminal
2	DECIMAL	41	AFC_IOCTL	Get path name
2	DECIMAL	42	AFC_GETMNT	Get mount entry
2	DECIMAL	43	AFC_QUIESCE	Quiesce mount
2	DECIMAL	44	AFC_UNQUIESCE	Unquiesce mount
2	DECIMAL	45	AFC_VREGISTER	Server registration
2	DECIMAL	46	AFC_VRESOLVEPN	Server resolve path name
2	DECIMAL	47	AFC_VLOOKUP	Server lookup
2	DECIMAL	48	AFC_VREADWRITE	Server read write
2	DECIMAL	49	AFC_VREADDIR	Server read directory
2	DECIMAL	50	AFC_SIGACTION	Change Osigset action
2	DECIMAL	51	AFC_VCREATE	Server create
2	DECIMAL	52	AFC_VMAKEDIR	Server make directory
2	DECIMAL	53	AFC_VSYMLINK	Server symbolic link
2	DECIMAL	54	AFC_VSETATTR	Server set file attributes
2	DECIMAL	55	AFC_VLINK	Server link
2	DECIMAL	56	AFC_VREMOVEDIR	Server remove directory
2	DECIMAL	57	AFC_VREMOVE	Server remove
2	DECIMAL	58	AFC_VRENAME	Server rename
2	DECIMAL	59	AFC_CHATTR	Change file attributes
2	DECIMAL	60	AFC_FCHATTR	Change file attributes for open file
2	DECIMAL	61	AFC_THLMT	Set thread limit
2	DECIMAL	62	AFC_MSGCTL	Message control
2	DECIMAL	63	AFC_MSGGET	Message obtain
2	DECIMAL	64	AFC_MSGRCV	Message receive
2	DECIMAL	65	AFC_MSGSND	Message send
2	DECIMAL	66	AFC_SEMCTL	Semaphore control
2	DECIMAL	67	AFC_SEMGET	Get set of semaphores
2	DECIMAL	68	AFC_SEMOP	Semaphore operations
2	DECIMAL	69	AFC_SHMAT	Shared memory attach
2	DECIMAL	70	AFC_SHMCTL	Shared memory control
2	DECIMAL	71	AFC_SETREGID	Set real and/or effective GID
2	DECIMAL	72	AFC_SHMGET	Shared memory get
2	DECIMAL	73	AFC_WGETIPC	Query IPC status
2	DECIMAL	74	AFC_REMOVE	Remove
2	DECIMAL	75	AFC_SET_MODE	Set mode
2	DECIMAL	76	AFC_SET_MSGQB	Set message queue maximum bytes
2	DECIMAL	77	AFC_SET_GID	Set supplementary groups
2	DECIMAL	78	AFC_PASSWORD	Verify password
2	DECIMAL	79	AFC_LCHOWN	Change owner and group of a symbolic link
2	DECIMAL	80	AFC_TRUNCATE	Truncate a file
2	DECIMAL	81	AFC_PFSCTL	Control function for the physical file system.
2	DECIMAL	82	AFC_SETRLIMIT	Set maximum resource consumption
2	DECIMAL	83	AFC_SETPRIORITY	Set process scheduling priority
2	DECIMAL	84	AFC_NICE	Change priority of a process
2	DECIMAL	85	AFC_SETREUID	Set real and/or effective UID
2	DECIMAL	86	AFC_WRITEV	Write on a file
2	DECIMAL	87	AFC_FCHDIR	Change working directory
2	DECIMAL	88	AFC_CHROOT	Change root directory
2	DECIMAL	89	AFC_REALPATH	Resolve path name
2	DECIMAL	90	AFC_STATVFS	Get file system information
2	DECIMAL	91	AFC_BIND	Bind a name to a socket
2	DECIMAL	92	AFC_SOCKET	Create an endpoint for communication
2	DECIMAL	93	AFC_THREAD_SEC	Thread level security
2	DECIMAL	94	AFC_AUTHCHECK	Authority check
2	DECIMAL	95	AFC_ACC_SEND	Send access rights
2	DECIMAL	96	AFC_ACC_RECV	Receive access rights
2	DECIMAL	97	AFC_ACC_DISC	Discard access rights
2	DECIMAL	98	AFC_NEWGRP	Newgrp shell utility
2	DECIMAL	99	AFC_CONSOLE	Console communication service
2	DECIMAL	100	AFC_SERV_INIT	WLM service Console communication service
2	DECIMAL	101	AFC_SPAWN	Spawn
2	DECIMAL	102	AFC_SWAP_SERV	Swap services

AFC

Len	Type	Value	Name	Description
2	DECIMAL	103	AFC_WLMC	WLM C and C++
| 2	DECIMAL	104	AFC_LOGIN	__LOGIN SYSTEM CALL
| 2	DECIMAL	105	AFC_ENDOF_TAB	End of table

AUL: RACROUTE REQUEST=AUDIT Parameter List (Request Section)

Common Name: Request-specific portion of the RACROUTE REQUEST=AUDIT parameter list

Macro ID: ICHPAUL

DSECT Name: AUDLIST

Owning Component: Resource Access Control Facility (SC1BN)

Eye-Catcher ID: None

Storage Attributes: Subpool Determined by caller
Key Determined by caller
Residency Determined by caller

Size: 36 bytes

Created by: RACROUTE REQUEST=AUDIT macro

Pointed to by: Address of SAFR plus offset at SAFPRACP

Serialization: None

Function: Maps the request-specific portion of the parameter list passed to the RACROUTE REQUEST=AUDIT routine

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	48	AUDLIST	RACAUDIT parameter list
0	(0)	UNSIGNED	2	AUDVERS	Parameter list version
2	(2)	UNSIGNED	2	AUDLEN	Parameter list length
4	(4)	ADDRESS	4	AUDEVENT	Address of event name
8	(8)	UNSIGNED	2	AUDEQUAL	Event code qualifier
10	(A)	UNSIGNED	2	*	Reserved
12	(C)	ADDRESS	4	AUDCLASS	Address of class name
16	(10)	ADDRESS	4	AUDENTYX	Address of entity name
20	(14)	ADDRESS	4	AUDACEE	Address of ACEE
24	(18)	ADDRESS	4	AUDLOGST	Address of LOGSTR data
28	(1C)	UNSIGNED	1	AUDRESUL	Result byte
29	(1D)	UNSIGNED	3	*	Reserved
32	(20)	ADDRESS	4	* (4)	Reserved

Cross Reference

Name	Hex Offset	Hex Value	Level
AUDACEE	14		2
AUDCLASS	C		2
AUDENTYX	10		2
AUDEQUAL	8		2
AUDEVENT	4		2
AUDLEN	2		2
AUDLIST	0		1
AUDLOGST	18		2
AUDRESUL	1C		2
AUDVERS	0		2

CCXP: Command Preprocessing Exit (ICHCCX00) Parameter List

Common Name: ICHCCX00 Exit Parameter List
Macro ID: ICHCCXP
DSECT Name: CCXPL
Owning Component: Resource Access Control Facility (XXH00)
Eye-Catcher ID: None
Storage Attributes: N/A
Size: 16 bytes
Created by: Commands: DELGROUP (DG), DELUSER (DU), REMOVE (RE)
Pointed to by: R1 on entry to ICHCCX00
Serialization: None
Function: Contains the list of addresses passed to the DELGROUP, DELUSER, and REMOVE command preprocessing installation exit routine

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE		CCXPL	
Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	ADDRESS	4	CCXCALLR	Caller address: points to a 1-byte field identifying the calling command: X'0A' DELGROUP X'0B' DELUSER X'0C' REMOVE
		.... 1.1.		CCXDELGR	
		.... 1.11		CCXDELUS	
		.... 11..		CCXREMOV	
4	(4)	ADDRESS	4	CCXENTIT	Entity address: points to an 8-byte field containing the entity name; the name is left-justified and padded with blanks. For DELUSER and REMOVE, the field is initialized to the userid; for DELGROUP, the field is initialized to the group name.
8	(8)	ADDRESS	4	CCXARG	Search argument address: points to an area containing a 1-byte length field followed by a 44-byte field containing the search argument for the data set search. For REMOVE and DELGROUP, the value is set to the group name followed by a period; for DELUSER, the value is set to the userid of the user being deleted, followed by a period. Although the exit can change the value, the length should remain within the range of 1 through 44.
12	(C)	ADDRESS	4	CCXCPPL	CPPL address: points to the command processor parameter list.

CDXP: Notify/Verify/List Exit Routines Parameter List

Common Name:	Notify/verify/list exit routines parameter list
Macro ID:	ICHCDXP
DSECT Name:	CDXPLIST
Owning Component:	Resource Access Control Facility (XXH00)
Eye-Catcher ID:	None
Storage Attributes:	N/A
Size:	108 bytes
Created by:	RACF dynamic parse
Pointed to by:	R1 at entry to exit
Serialization:	None
Function:	Provides an attachment interface for such products as CICS/ESA that have data segments in the RACF database and provide exits for RACF's dynamic parse functions. ICHCDXP is not for use by any other programs.

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	SIGNED	4	CDXNXPT	Address of next parameter list
4	(4)	SIGNED	4	CDXCPPL	Address of the CPPL
8	(8)	SIGNED	4	CDXDAPT	Address of data area
12	(C)	SIGNED	4	CDXDWPT	Address of data word
16	(10)	SIGNED	4	CDXUWPT	Address of user word
20	(14)	SIGNED	4	CDXENPT	Address of entry length/name
24	(18)	SIGNED	4	CDXCLPT	Address of class length/name
28	(1C)	CHARACTER	8	CDXPFNM	Profile name
36	(24)	BITSTRING	1	CDXPFTP	Profile type
37	(25)	BITSTRING	1	CDXCLTP	Class type
38	(26)	BITSTRING	1	CDXOPTP	Operation type (Add,Alter,Delete)
39	(27)	BITSTRING	1	CDXFLAGS	Value of keytab flags
40	(28)	CHARACTER	8	CDXSGNM	Segment name
48	(30)	CHARACTER	32	CDXKYNM	Keyword name
80	(50)	CHARACTER	8	CDXTMNM	Template name
88	(58)	CHARACTER	2	CDXTMLN	Template length
90	(5A)	CHARACTER	2		
92	(5C)			CDXADDL	Additional parameter list if any. See mappings below for different parameter lists.
Additional parameter list for verify exit only					
92	(5C)	SIGNED	4	CDXVMSK	Verify masks
Additional parameter list for list exit only					
92	(5C)	SIGNED	4	CDXLHPT	Address of list heading
96	(60)	SIGNED	4	CDXLFPT	Address of data format
100	(64)	SIGNED	4	CDXANMSK	AND mask to be applied
104	(68)	SIGNED	4	CDXORMSK	OR mask to be applied

CDXP

Cross Reference

Name	Hex Offset	Hex Value	Level
CDXADDL	5A	5C	2
CDXANMSK	64		2
CDXCLPT	18		2
CDXCLTP	25		2
CDXCPPL	4		2
CDXDAPT	8		2
CDXDWPT	C		2
CDXENPT	14		2
CDXFLAGS	27		2
CDXKYNM	30		2
CDXLFPT	60		2
CDXLHPT	5C		2
CDXNXPT	0		2
CDXOPTP	26		2
CDXORMSK	68		2
CDXPFNM	1C		2
CDXPFTP	24		2
CDXSGNM	28		2
CDXTMLN	58		2
CDXTMNM	50		2
CDXUWPT	10		2
CDXVMSK	5C		2

CGRP: Connect Group Name Table Definition

NOT Programming Interface information

The following field is not Programming Interface information:

- CGRPGPAT
- When addressed via ACEECGRP, the CGRP data area is not intended for customer use as programming interface information.

End of NOT Programming Interface information

Common Name: Connect group name table definition
Macro ID: ICHPCGRP
DSECT Name: CGRP, CGRPENTD
Owning Component: Resource Access Control Facility (SC1BN)
Eye-Catcher ID: CGRP (Offset: 0, Length: 4)
Storage Attributes: Subpool 255 (or as specified by the issuer of RACROUTE REQUEST=VERIFY)
 Key 0
 Residency May reside above 16M
Size: 32 bytes plus 24 bytes per connect group
Created by: Various RACF functions
Pointed to by: ACEECGRP or ACEEFCGP field of the ACEE data area
Serialization: None (when ACEEFCGP points to it)
Function: Contains the names of the groups where the ACEEUSRI user ID is a member

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	*	CGRP	Connect group name table
0	(0)	CHARACTER	32	CGRPHADR	CGRP header
0	(0)	CHARACTER	4	CGRPID	Table ID
4	(4)	CHARACTER	4	CGRPCORE	CGRP subpool and length
4	(4)	UNSIGNED	1	CGRPSP	Subpool number
5	(5)	ADDRESS	3	CGRPLEN	Length of CGRP
8	(8)	SIGNED	2	CGRPNUM	Maximum entries in table
10	(A)	UNSIGNED	1	CGRPVRSN	Version = 1
11	(B)	CHARACTER	1	*	Reserved
12	(C)	SIGNED	4	CGRPSYNC	Synchronize value
16	(10)	ADDRESS	4	CGRPGPAT	Address of group authorities table, or zero if no such table exists
20	(14)	CHARACTER	4	CGRPGCHG	Group connection status change date
24	(18)	CHARACTER	8	*	Reserved
32	(20)	CHARACTER	24	CGRPENT (*)	Group name entry
32	(20)	CHARACTER	8	CGRPNAME	Group name
40	(28)	BITSTRING	1	CGRPIND	Indicators for this entry
		1... ..		CGRPCHK	Always zero, was revoke indicator
		.1... ..		CGRPPREFR	On if group authority table must be refreshed for this connect group
		..1.		CGRPCOMP	On if group entered into group authority table and no later authority changes were made or the group did not need to be entered into the table
		...1		CGRPPROP	On if this group is owned by its superior group. It indicates the group is part of the subgroup tree for propagation of group authorities.

CGRP

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
41	(29)	.... 1111 BITSTRING	1	* CGRPAUTH	Reserved Group authority indicators
		1... .... .1..		CGRPSPEC *	On if group-special authority Reserved
		..1.		CGRPOPER	On if group-operations authority
		...1		CGRPAUDT	On if group-auditor authority
42	(2A)	.... 1111 SIGNED	2	* CGRPGPNM	Reserved Number of entries in group authority table related to this connect group
44	(2C)	SIGNED	4	CGRPGPTE	Address of first group authority table entry related to this connect group
48	(30)	SIGNED	2	CGRPSUPG	RACF 1.9.2 or higher: this field is not used. Index in CGRPENT of entry for superior group of this entry, to which the user is connected.
50	(32)	CHARACTER	6	*	Reserved
56	(38)	CHARACTER		*	End of entry

Constants

Len	Type	Value	Name	Description
4	CHARACTER	CGRP	CGRPTID	Table ID

Cross Reference

Name	Hex Offset	Hex Value	Level
CGRP	0		1
CGRPAUDT	29	10	4
CGRPAUTH	29		3
CGRPCHK	28	80	4
CGRPCOMP	28	20	4
CGRPCORE	4		3
CGRPENT	20		2
CGRPGCHG	14		3
CGRPGPAT	10		3
CGRPGPNM	2A		3
CGRPGPTE	2C		3
CGRPHADR	0		2
CGRPID	0		3
CGRPIND	28		3
CGRPLEN	5		4
CGRPNAME	20		3
CGRPNUM	8		3
CGRPOPER	29	20	4
CGRPPROP	28	10	4
CGRPPREFR	28	40	4
CGRPSP	4		4
CGRPSPEC	29	80	4
CGRPSUPG	30		3
CGRPSYNC	C		3
CGRPVRSN	A		3

CNST/CNSX: Class Name and Syntax Table

NOT Programming Interface Information

The following fields are not programming interface information:

- CNSTGNLP
- CNSTRCLP
- CNSTSTKN

End of NOT Programming Interface Information

Common Name: RACF class name and syntax table

Macro ID: ICHPCNST

DSECT Name: CNST, CNSX

Owning Component: Resource Access Control Facility (XXH00)

Eye-Catcher ID: None

Storage Attributes: Subpool 245 (SQA and ESQA)
Key 0
Residency N/A

Size: Each entry has:
28 bytes in SQA (the CNST part)
152 bytes in ESQA (the CNSX part)

Created by: RACF initialization

Pointed to by: The RCVTCDTP field of the RCVT data area. The entry for an individual class should be found using RACROUTE REQUEST=STAT with the CLASS=, COPY=, and COPYLEN= parameters.

Serialization: None

Function: Describes a general resource class to RACF. This table contains the name of the general class, the resource name syntax, and control information. There is one entry for each general resource class.

Each entry has two parts: the CNST part in SQA points to the CNSX part in ESQA. The CNST part of each entry immediately follows the CNST part of the preceding entry. CNSTLGT=0 indicates the end of the table.

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	28	CNST	Class name/syntax table
0	(0)	SIGNED	2	CNSTLGT	Length of CNST portion of entry
2	(2)	UNSIGNED	1	CNSTID	Class ID number
3	(3)	CHARACTER	8	CNSTNAME	Class name
11	(B)	CHARACTER	8	CNSTXREF	Group/member class name
19	(13)	CHARACTER	3	CNSTSNTX	Class member name syntax
19	(13)	UNSIGNED	1	CNSTMAXL	Maximum length of member name
20	(14)	BITSTRING	1	CNSTFRST	Syntax of first character
		1... ..		CNSTFALP	1 => Alphabetic char allowed
		.1.. ..		CNSTFNAT	1 => National char allowed
		..1.		CNSTFNUM	1 => Numeric char allowed
		...1		CNSTFSPE	1 => Special char allowed
		.... 1111		*	Reserved
21	(15)	BITSTRING	1	CNSTREMNM	Syntax of remaining character
		1... ..		CNSTRALP	1 => Alphabetic char allowed

CNST/CNSX

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		.1..		CNSTRNAT	1 => National char allowed
		..1.		CNSTRNUM	1 => Numeric char allowed
		...1		CNSTRSPE	1 => Special char allowed
		.... 1111		*	Reserved
22	(16)	BITSTRING	1	CNSTUACC	Default UACC
		1...		CNSTALTR	1 => Alter UACC
		.1..		CNSTCNTL	1 => Control UACC
		..1.		CNSTUPDT	1 => Update UACC
		...1		CNSTREAD	1 => Read UACC
		.... 1..		CNSTEXEC	1 => Execute UACC
		.... .11.		*	Reserved
		.... ...1		CNSTNONE	1 => None UACC
23	(17)	BITSTRING	1	CNSTMFLG	Miscellaneous flags
		1...		CNSTRGRP	1 => Class is resource group
		.1..		CNSTACEE	1 => Use UACC from ACEE
		..1.		CNSTOPER	1 => OPERATIONS attribute applies to this class
		...1		CNSTRACL	1 => RACLIST allowed
		.... 1..		CNSTGENL	1 => GENLIST allowed
		.... .1..		CNSTDSPC	1 => RACLISTed to a data space
		.... ..1.		CNSTXFLG	1 => CNST is in the new format using CNSX
		.... ...1		CNSTOWNR	1 => User-installed CDT entry or 0 => IBM-supplied CDT entry
24	(18)	ADDRESS	4	CNSTCNSX	Address of the rest of the class entry fields in CNSX
28	(1C)	CHARACTER		*	Force alignment

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	152	CNSX	Class entry extension
0	(0)	BITSTRING	128	CNSTVMSK	Longer mask for option flag
0	(0)	BITSTRING	16	CNSTLMSK	Long mask for option flag
0	(0)	BITSTRING	4	CNSTMASK	Mask for old option flags
4	(4)	BITSTRING		CNSTMSKS	Used by ICHSEC00 to find old mapping length
128	(80)	ADDRESS	4	CNSTGNLP	Pointer to GENLISTed CDT profiles
132	(84)	ADDRESS	4	CNSTRCLP	Pointer to RACLISTed CDT profiles
136	(88)	UNSIGNED	1	CNSTDFRC	Default return code; if omitted, defaults to 4
137	(89)	BITSTRING	1	CNSTFLG0	Miscellaneous flags
		1...		CNSTRLRQ	1 ==> Class must be RACLISTed
		.1..		CNSTPRDF	0 ==> Allow profiles to be defined for this class
		..1.		CNSTUSLB	1 ==> SECLABEL required for this class
		...1		CNSTRMAC	1 ==> Reverse MAC checking is done for this class
		.... 1..		CNSTDUP	1 ==> characters 1 - 4 are identical to a previous class
		.... .111		*	Reserved
138	(8A)	UNSIGNED	1	CNSTKEYQ	KEYQUAL ==> Number of significant qualifiers
139	(8B)	UNSIGNED	1	CNSTORML	Original allowable maximum length of member name, used for 'ENTITY' keyword only.
140	(8C)	CHARACTER	4	*	Reserved (align to doubleword boundary)
144	(90)	CHARACTER	8	CNSTSTKN	STOKEN for data space used to RACLIST profiles
152	(98)	CHARACTER		*	Force alignment

Cross Reference

Name	Hex Offset	Hex Value	Level
CNST	0		1
CNSTACEE	17	40	3
CNSTALTR	16	80	3
CNSTCNSX	18		2
CNSTCNTL	16	40	3
CNSTDFRC	88		2
CNSTDSPC	17	04	3
CNSTDUP	89	08	3
CNSTEXEC	16	08	3
CNSTFALP	14	80	4
CNSTFLG0	89		2
CNSTFNAT	14	40	4
CNSTFNUM	14	20	4
CNSTFRST	14		3
CNSTFSPE	14	10	4
CNSTGENL	17	08	3
CNSTGNLP	80		2
CNSTID	2		2
CNSTKEYQ	8A		2
CNSTLGT	0		2
CNSTLMSK	0		3
CNSTMASK	0		4
CNSTMAXL	13		3
CNSTMFLG	17		2
CNSTMSKS	4		4
CNSTNAME	3		2
CNSTNONE	16	01	3
CNSTOPER	17	20	3
CNSTORML	8B		2
CNSTOWNR	17	01	3
CNSTPRDF	89	40	3
CNSTRACL	17	10	3
CNSTRALP	15	80	4
CNSTRCLP	84		2
CNSTREAD	16	10	3
CNSTREMN	15		3
CNSTRGRP	17	80	3
CNSTRLRQ	89	80	3
CNSTRMAC	89	10	3
CNSTRNAT	15	40	4
CNSTRNUM	15	20	4
CNSTRSPE	15	10	4
CNSTSNTX	13		2
CNSTSTKN	90		2
CNSTUACC	16		2
CNSTUPDT	16	20	3
CNSTUSLB	89	20	3
CNSTVMSK	0		2
CNSTXFLG	17	02	3
CNSTXREF	B		2
CNSX	0		1

CNXP: Command Preprocessing Exit (ICHCNX00) Parameter List

Common Name: ICHCNX00 command preprocessing exit parameter list
Macro ID: ICHCNXP
DSECT Name: CNXPL
Owning Component: Resource Access Control Facility (XXH00)
Eye-Catcher ID: None
Storage Attributes: N/A
Size: 48 bytes
Created by: Commands: ADDSD, ALTDSD, DELDSD, LISTDSD, PERMIT, SEARCH
 Utilities: IRRUT100
Pointed to by: R1 at entry to ICHCNX00
Serialization: None
Function: Contains the list of addresses passed to the ICHCNX00 command preprocessing exit

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE		CNXPL	
Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	ADDRESS	4	CNXLEN	Length address: points to a fullword containing the number of fullwords in this parameter list.
4	(4)	ADDRESS	4	CNXCALLR	Caller address: points to a 2-byte field containing a function code and subfunction code identifying the caller:
		BITSTRING		CNXRACHK	X'0100' RACHECK
		BITSTRING		CNXRDDEF	X'0201' RACDEF DEFINE
		BITSTRING		CNXRDREN	X'0202' RACDEF RENAME
		BITSTRING		CNXRDADV	X'0203' RACDEF ADDVOL
		BITSTRING		CNXRDDEL	X'0204' RACDEF DELETE
		BITSTRING		CNXRDCHV	X'0205' RACDEF CHGVOL
		BITSTRING		CNXADSET	X'0301' ADDSD SET
		BITSTRING		CNXADNOS	X'0302' ADDSD NOSET
		BITSTRING		CNXADMOD	X'0303' ADDSD MODEL
		BITSTRING		CNXALSET	X'0401' ALTDSD SET
		BITSTRING		CNXALNOS	X'0402' ALTDSD NOSET
		BITSTRING		CNXDLSET	X'0501' DELDSD SET
		BITSTRING		CNXDLNOS	X'0502' DELDSD NOSET
		BITSTRING		CNXLDPRE	X'0601' LISTDSD prelocate call
		BITSTRING		CNXLDDS	X'0602' LISTDSD DATASET
		BITSTRING		CNXLDIDP	X'0603' LISTDSD ID or PREFIX
		BITSTRING		CNXPERTO	X'0701' PERMIT TO-resource
		BITSTRING		CNXPERFR	X'0702' PERMIT FROM-resource
		BITSTRING		CNXSRCPR	X'0801' SEARCH prelocate
		BITSTRING		CNXSRCPO	X'0802' SEARCH postlocate
		BITSTRING		CNXUT100	X'0900' IRRUT100
		BITSTRING		CNXRXTRT	X'0D00' RACXTRT
8	(8)	ADDRESS	4	CNXFLAG	Authority flag address: points to a 1-byte field containing the user's authorization to the requested function:
		.... 1...		CNXREAD	X'08' READ

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		1...		CNXALTCR	X'80' ALTER or CREATE. In order to issue the SEARCH command for a data set, a user requires at least READ authority. In order to issue LISTDSD for a data set specifying the AUTHUSER or ALL operands, the user must have ALTER authority or the equivalent.
12	(C)	ADDRESS	4	CNXRESNM	Resource name address: points to a 1-byte field containing the resource name length followed by a 44-byte area containing the resource name. The name is left-justified.
16	(10)	ADDRESS	4	CNXOLDNM	Old name address: points to a 1-byte field containing the length of the name followed by a 44-byte area containing the name of the data set that was renamed. The name is left-justified.
20	(14)	ADDRESS	4	CNXVOL	Volume serial address: points to an area containing a 1-byte count field followed by a variable number of 6-byte fields containing volume serial identifiers, each left-justified and padded on the right with blanks.
24	(18)	ADDRESS	4	CNXOLVOL	Old volume serial address: points to a 6-byte area containing the volume serial identifier, left-justified and padded on the right with blanks.
28	(1C)	ADDRESS	4	CNXRESCL	Resource class name address: points to an 8-byte field containing the resource class name (DATASET). For information about the prelocate call to ICHCNX00 from LISTDSD and SEARCH, see the discussion of ICHCNX00 processing in the <i>OS/390 Security Server (RACF) System Programmer's Guide</i> .
32	(20)	ADDRESS	4	CNXQUAL	Qualifier address: points to an 8-byte field containing the data set qualifier. The qualifier is left-justified and padded on the right with blanks. This value is initialized to the high-level qualifier of the data set with the exceptions noted in the discussion of ICHCNX00 processing in the <i>OS/390 Security Server (RACF) System Programmer's Guide</i> . If the exit changes the value, processing continues with the changed value. For ADDSD, RACDEF DEFINE, and RACDEF RENAME, RACF determines if the value is a user ID or a group defined to RACF. For the other commands and IRRUT100, RACF determines if the value is a user ID.
36	(24)	ADDRESS	4	CNXDSTYP	Data set type address: points to a 1-byte flag field indicating the type of data set. The use of this field is explained in more detail in the discussion of ICHCNX00 processing in the <i>OS/390 Security Server (RACF) System Programmer's Guide</i> .
		.... ...1		CNXUNKWN	X'01' unknown
		.1..		CNXGRPDS	X'40' group data set
		1...		CNXUSRDS	X'80' user data set
40	(28)	ADDRESS	4	CNXAUTH	Authority address: points to a 1-byte flag field containing the authority granted by the exit:
		.... ...1		CNXNONE	X'01' none
		1...		CNXALTER	X'80' ALTER. As noted in the discussion of ICHCNX00 processing in the <i>OS/390 Security Server (RACF) System Programmer's Guide</i> , this field is used only for the LISTDSD command. It is intended for those cases when the exit gives the user the authority to list the data set description, which requires READ authority, but not list the access list, which requires ALTER authority.

CNXP

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
44	(2C)	ADDRESS	4	CNXCPL	CPPL address: points to the command processor list (mapped by the IKJCPPL macro instruction). The CPPL can be used to prompt or send messages to a TSO user. See the discussion of ICHCNX00 processing in the <i>OS/390 Security Server (RACF) System Programmer's Guide</i> . The address is zero in non-TSO cases.

Cross Reference

Name	Hex Offset	Hex Value	Level
CNXADMOD	4	303	2
CNXADNOS	4	302	2
CNXADSET	4	301	2
CNXALNOS	4	402	2
CNXALSET	4	401	2
CNXALTCR	8	80	2
CNXALTER	28	80	2
CNXAUTH	28		2
CNXCALLR	4		2
CNXCPL	2C		2
CNXDLNOS	4	502	2
CNXDLSET	4	501	2
CNXDSTYP	24		2
CNXFLAG	8		2
CNXGRPDS	24	40	2
CNXLDDS	4	602	2
CNXLDIDP	4	603	2
CNXLDPRE	4	601	2
CNXLEN	0		2
CNXNONE	28	1	2
CNXOLDNM	10		2
CNXOLVOL	18		2
CNXPERFR	4	702	2
CNXPERTO	4	701	2
CNXQUAL	20		2
CNXRACHK	4	100	2
CNXRDADV	4	203	2
CNXRDCHV	4	205	2
CNXRDDEF	4	201	2
CNXRDDEL	4	204	2
CNXRDREN	4	202	2
CNXREAD	8	8	2
CNXRESCL	1C		2
CNXRESNM	C		2
CNXRXTRT	4	D00	2
CNXSRCPO	4	802	2
CNXSRCPR	4	801	2
CNXUNKWN	24	1	2
CNXUSRDS	24	80	2
CNXUT100	4	900	2
CNXVOL	14		2

COMP: Common SAF/RACF Parameter List for OS/390 UNIX System Services

Common Name: Common SAF/RACF parameter list for OS/390 UNIX System Services security functions

Macro ID: IRRPCOMP

DSECT Name: COMP, IUSP, CSID, EXID, GETG, CHKP, GMAP, CKPO, QRYS, CMOD, CLID, CAUD, COWN, UMSK, KACC, QRYF, KFOW, MKRT, PTRC, MFSP, RAUD, GUGP, FORK, MISP, IACC, IOWN, CKO2, GETE, DKEY, DINF, DRUR, DAUT, INTA, ADMN

Owning Component: Resource Access Control Facility (SC1BN)

Eye-Catcher ID: None

Storage Attributes:

Subpool	N/A
Key	Any
Residency	Invoker's primary address space

Size:

Section	Size
COMP	28 bytes
IUSP	8 bytes
CSID	16 bytes
EXID	40 bytes
GETG	32 bytes
CHKP	8 bytes
GMAP	24 bytes
CKPO	32 bytes
QRYS	16 bytes
CMOD	32 bytes
CLID	24 bytes
CAUD	32 bytes
COWN	40 bytes
UMSK	8 bytes
KACC	40 bytes
QRYF	16 bytes
KFOW	24 bytes
MKRT	32 bytes
PTRC	24 bytes
MFSP	40 bytes
RAUD	48 bytes
GUGP	48 bytes
FORK	40 bytes
MISP	32 bytes
IACC	24 bytes
IOWN	48 bytes
CKO2	40 bytes
GETE	56 bytes
DKEY	32 bytes
DINF	40 bytes
DRUR	32 bytes
DAUT	36 bytes
INTA	44 bytes
ADMN	24 bytes

Created by: Invoker of OS/390 UNIX System Services security functions

COMP

Pointed to by: Address of COMP is passed in register 1 when invoking OS/390 UNIX System Services security functions

Serialization: None

Function: Maps the common input parameter list for the RACF and SAF callable services routers

Offsets			Len		
Dec	Hex	Type		Name (Dim)	Description
0	(0)	STRUCTURE	28	COMP	Common SAF/RACF plist
0	(0)	ADDRESS	4	COMP_WORKA_STOR@	Address of 1024-byte work area
4	(4)	ADDRESS	4	COMP_SAFRC_ALET@	Address of ALET for SAF RC
8	(8)	ADDRESS	4	COMP_SAFRC_STOR@	Address of SAF return code
12	(C)	ADDRESS	4	COMP_RACRC_ALET@	Address of ALET for RACF return code
16	(10)	ADDRESS	4	COMP_RACRC_STOR@	Address of RACF return code
20	(14)	ADDRESS	4	COMP_RACSC_ALET@	Address of ALET for RACF reason code
24	(18)	ADDRESS	4	COMP_RACSC_STOR@	Address of RACF reason code
28	(1C)	CHARACTER		COMP_SERVR_PARAMS	Service routine parameter lists begin here

Offsets			Len		
Dec	Hex	Type		Name (Dim)	Description
0	(0)	STRUCTURE	8	IUSP	
0	(0)	ADDRESS	4	IUSP_WORKA_ALET@	Address of ALET for the output area
4	(4)	ADDRESS	4	IUSP_WORKA_STOR@	Address of the 4-byte output area. The output area contains an address that points to data about a user

Offsets			Len		
Dec	Hex	Type		Name (Dim)	Description
0	(0)	STRUCTURE	16	CSID	
0	(0)	ADDRESS	4	CSID_ID_ALET@	Address of ALET for the UID/GID
4	(4)	ADDRESS	4	CSID_ID@	Address of the UID/GID
8	(8)	ADDRESS	4	CSID_IDOA_ALET@	Address of ALET for output area
12	(C)	ADDRESS	4	CSID_IDOA@	Address of a 3-word output area This area contains the new real, effective and saved UID/GIDs

Offsets			Len		
Dec	Hex	Type		Name (Dim)	Description
0	(0)	STRUCTURE	40	EXID	
0	(0)	ADDRESS	4	EXID_FLAG_ALET@	Address of ALET for a byte flag
4	(4)	ADDRESS	4	EXID_FLAG@	Address of a one-byte flag that indicates set UID, GID, or both. X'01' = Set UID. X'02' = Set GID. X'03' = Set both.
8	(8)	ADDRESS	4	EXID_UID_ALET@	Address of ALET for UID to be set
12	(C)	ADDRESS	4	EXID_UID@	Address of the UID to be set
16	(10)	ADDRESS	4	EXID_GID_ALET@	Address of ALET for GID to be set
20	(14)	ADDRESS	4	EXID_GID@	Address of the GID to be set
24	(18)	ADDRESS	4	EXID_UIDO_ALET@	Address of ALET for UID output area
28	(1C)	ADDRESS	4	EXID_UIDO@	Address of UID output area, which is 3 words filled in by IRRREX00 with the real, effective, and saved UIDs
32	(20)	ADDRESS	4	EXID_GIDO_ALET@	Address of ALET for GID output area
36	(24)	ADDRESS	4	EXID_GIDO@	Address of GID output area, which is 3 words filled in by IRRREX00 with the real, effective, and saved GIDs

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	32	GETG	
0	(0)	ADDRESS	4	GETG_KEY_ALET@	Address of ALET for the user's key
4	(4)	ADDRESS	4	GETG_KEY@	Address of a byte that contains the user's key. The key is in the high-order 4 bits of the byte
8	(8)	ADDRESS	4	GETG_GCNT_ALET@	Address of ALET for the group count
12	(C)	ADDRESS	4	GETG_GCNT@	Address of the group count (a one-word area that contains the number of GIDs in the grouplist area)
16	(10)	ADDRESS	4	GETG_GLST_ALET@	Address of ALET for the group list
20	(14)	ADDRESS	4	GETG_GLST@	Address of the group list area in which supplemental GIDs are returned
24	(18)	ADDRESS	4	GETG_GNUM_ALET@	Address of ALET for number of groups
28	(1C)	ADDRESS	4	GETG_GNUM@	Address of the number of groups (a one-word area in which the number of supplemental group GIDs is returned)

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	8	CHKP	
0	(0)	ADDRESS	4	CHKP_AUFC_ALET@	Address of ALET for audit function code
4	(4)	ADDRESS	4	CHKP_AUFC@	Address of the audit function code (a word containing the function code that identifies the system call being processed)

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	24	GMAP	
0	(0)	ADDRESS	4	GMAP_FLAG_ALET@	Address of ALET for one-byte flag
4	(4)	ADDRESS	4	GMAP_FLAG@	Address of the one-byte flag: X'00' Search by GID/UID X'01' Search by group ID/user ID
8	(8)	ADDRESS	4	GMAP_ID_ALET@	Address of ALET for the GID/UID
12	(C)	ADDRESS	4	GMAP_ID@	Address of a word containing the input UID/GID or in which the UID/GID is returned
16	(10)	ADDRESS	4	GMAP_NAME_ALET@	Address of ALET for the group name or user ID
20	(14)	ADDRESS	4	GMAP_NAME@	Address of 8 bytes that contain an input group name or user ID or in which the group name or user ID is returned. The name/ID is left-justified and padded with blanks.

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	32	CKPO	
0	(0)	ADDRESS	4	CKPO_REQT_ALET@	Address of ALET for one byte request type.
4	(4)	ADDRESS	4	CKPO_REQT@	Address of the one-byte request type: 1 - Audit only request from KILL used when SIGCONT signal is being sent. 2 - KILL request. 3 - GETPSENT request. 4 - OPEN Slave TTY request.
8	(8)	ADDRESS	4	CKPO_UIDS_ALET@	Address of ALET for UIDs area.
12	(C)	ADDRESS	4	CKPO_UIDS@	Address of a 3-word area containing real, effective, and saved UIDs (in that order) for the target process.
16	(10)	ADDRESS	4	CKPO_PID_ALET@	Address of ALET for target PID.
20	(14)	ADDRESS	4	CKPO_PID@	Address of the words containing the target process's PID.
24	(18)	ADDRESS	4	CKPO_CODE_ALET@	Address of ALET for signal code.
28	(1C)	ADDRESS	4	CKPO_CODE@	Address of word containing a code identifying signal being sent. This word is ignored for request type 3.

COMP

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	16	QRYS	
0	(0)	ADDRESS	4	QRYS_OPTN_CODE_ALET@	Address of ALET for one word requested option code
4	(4)	ADDRESS	4	QRYS_OPTN_CODE@	Address of the one-word requested option code. The defined codes are: X'00000001' POSIX_SAVED_IDS option X'00000002' NGROUPS_MAX options
8	(8)	ADDRESS	4	QRYS_OUTP_VAL_ALET@	Address of ALET for one-word output value
12	(C)	ADDRESS	4	QRYS_OUTP_VAL@	Address of one-word output value

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	32	CMOD	
0	(0)	ADDRESS	4	CMOD_MODE_ALET@	Address of the ALET for the mode structure
4	(4)	ADDRESS	4	CMOD_MODE@	Address of a one-word mode parameter
8	(8)	ADDRESS	4	CMOD_FSP_ALET@	Address of the ALET for the FSP structure
12	(C)	ADDRESS	4	CMOD_FSP@	Address of the FSP structure
16	(10)	ADDRESS	4	CMOD_FID_ALET@	Address of the ALET for the file ID
20	(14)	ADDRESS	4	CMOD_FID@	Address of the file ID which is a 16-byte area that contains a unique ID of the file
24	(18)	ADDRESS	4	CMOD_CRED_ALET@	Address of the ALET for the CRED structure
28	(1C)	ADDRESS	4	CMOD_CRED@	Address of the CRED structure

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	24	CLID	
0	(0)	ADDRESS	4	CLID_FSP_ALET@	Address of the ALET for the FSP structure
4	(4)	ADDRESS	4	CLID_FSP@	Address of the FSP structure
8	(8)	ADDRESS	4	CLID_FID_ALET@	Address of the ALET for the file ID
12	(C)	ADDRESS	4	CLID_FID@	Address of the file ID which is a 16-byte area that contains a unique file ID
16	(10)	ADDRESS	4	CLID_CRED_ALET@	Address of the ALET for the CRED structure
20	(14)	ADDRESS	4	CLID_CRED@	Address of the CRED structure

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	32	CAUD	
0	(0)	ADDRESS	4	CAUD_AO_ALET@	Address of the ALET for the audit options
4	(4)	ADDRESS	4	CAUD_AO@	Address of 4 bytes that contain an audit option for each type of access: Byte 1 Audit read access Byte 2 Audit write access Byte 3 Audit execute/search Each of the above bytes contains an audit option: X'00' Don't audit any access attempts X'01' Audit successful access attempts X'02' Audit failed access attempts Byte 4 Audit flag where last bit indicates: X'00' Set user audit options X'01' Set auditor audit options
8	(8)	ADDRESS	4	CAUD_FSP_ALET@	Address of the ALET for the FSP structure
12	(C)	ADDRESS	4	CAUD_FSP@	Address of the FSP structure
16	(10)	ADDRESS	4	CAUD_FID_ALET@	Address of the ALET for the file ID
20	(14)	ADDRESS	4	CAUD_FID@	Address of the file ID which is a 16-byte area that contains a unique file ID
24	(18)	ADDRESS	4	CAUD_CRED_ALET@	Address of the ALET for the CRED structure
28	(1C)	ADDRESS	4	CAUD_CRED@	Address of the CRED structure

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	40	COWN	
0	(0)	ADDRESS	4	COWN_UID_ALET@	Address of ALET for UID to be set.
4	(4)	ADDRESS	4	COWN_UID@	Address of the UID to be set as the file owner UID.
8	(8)	ADDRESS	4	COWN_GID_ALET@	Address of ALET for GID to be set.
12	(C)	ADDRESS	4	COWN_GID@	Address of the GID to be set as the file owner GID.
16	(10)	ADDRESS	4	COWN_FSP_ALET@	Address of the ALET for the FSP structure.
20	(14)	ADDRESS	4	COWN_FSP@	Address of the FSP structure.
24	(18)	ADDRESS	4	COWN_FID_ALET@	Address of the ALET for the file ID.
28	(1C)	ADDRESS	4	COWN_FID@	Address of the file ID which is a 16-byte area that contains a unique ID of the file.
32	(20)	ADDRESS	4	COWN_CRED_ALET@	Address of the ALET for the CRED structure.
36	(24)	ADDRESS	4	COWN_CRED@	Address of the CRED structure.

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	8	UMSK	
0	(0)	ADDRESS	4	UMSK_MODE_ALET@	Address of the ALET for the mode structure.
4	(4)	ADDRESS	4	UMSK_MODE@	Address of the mode parameter.

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	40	KACC	
0	(0)	ADDRESS	4	KACC_ACODE_ALET@	Address of the ALET for the access code.
4	(4)	ADDRESS	4	KACC_ACODE@	Address of a 1-byte access code that contains: X'01' - Execute access X'02' - Write access X'03' - Write and execute access X'04' - Read access X'05' - Read and execute access X'06' - Read and write access X'07' - Read, write and execute access X'81' - Directory search access X'87' - Any access
8	(8)	ADDRESS	4	KACC_FSP_ALET@	Address of the ALET for the FSP structure.
12	(C)	ADDRESS	4	KACC_FSP@	Address of the FSP structure.
16	(10)	ADDRESS	4	KACC_FID_ALET@	Address of the ALET for the file ID.
20	(14)	ADDRESS	4	KACC_FID@	Address of the file ID which is a 16-byte area that contains a unique ID of the file.
24	(18)	ADDRESS	4	KACC_CRED_ALET@	Address of the ALET for the CRED structure.
28	(1C)	ADDRESS	4	KACC_CRED@	Address of the CRED structure.
32	(20)	ADDRESS	4	KACC_FLAG_ALET@	Address of the ALET for the name flag byte.
36	(24)	ADDRESS	4	KACC_FLAG@	Address of a byte flag that indicates which name is being checked: X'00' - Use the CRED_name_flag to determine path name being checked. Used by lookup. X'01' - The old (or only) name is being checked. Used by all calls except lookup and when rename and link are checking for write access to the parent directory of the new path name file. X'02' - The new name is being checked. Used by rename and link when checking for write access to the parent directory of the new path name file.

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	16	QRYF	
0	(0)	ADDRESS	4	QRYF_OCODE_ALET@	Address of the ALET for the option code.
4	(4)	ADDRESS	4	QRYF_OCODE@	Address of a 1-word option code that contains: X'00000001' - POSIX_CHOWN_RESTRICTED

COMP

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
8	(8)	ADDRESS	4	QRYF_OUTV_ALET@	Address of the ALET for the output value.
12	(C)	ADDRESS	4	QRYF_OUTV@	Address of the output value: 0 - POSIX_CHOWN_RESTRICTED 1 - Not POSIX_CHOWN_RESTRICTED

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	24	KFOW	
0	(0)	ADDRESS	4	KFOW_FSP_ALET@	Address of the ALET for the FSP structure.
4	(4)	ADDRESS	4	KFOW_FSP@	Address of the FSP structure.
8	(8)	ADDRESS	4	KFOW_FID_ALET@	Address of the ALET for the file ID.
12	(C)	ADDRESS	4	KFOW_FID@	Address of the file ID which is a 16-byte area that contains a unique ID of the file.
16	(10)	ADDRESS	4	KFOW_CRED_ALET@	Address of the ALET for the CRED structure.
20	(14)	ADDRESS	4	KFOW_CRED@	Address of the CRED structure.

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	32	MKRT	
0	(0)	ADDRESS	4	MKRT_MODE_ALET@	Address of the ALET for the mode structure.
4	(4)	ADDRESS	4	MKRT_MODE@	Address of the mode parameter.
8	(8)	ADDRESS	4	MKRT_OFSP_ALET@	Address of the ALET for the output FSP.
12	(C)	ADDRESS	4	MKRT_OFSP@	Address of the output FSP.
16	(10)	ADDRESS	4	MKRT_FID_ALET@	Address of the ALET for the file ID.
20	(14)	ADDRESS	4	MKRT_FID@	Address of the file ID which is a 16-byte area that contains a unique ID of the file.
24	(18)	ADDRESS	4	MKRT_DSN_ALET@	Address of the ALET for the dataset name.
28	(1C)	ADDRESS	4	MKRT_DSN@	Address of an area that contains the name of the PDSE/x data set being created (44-character length).

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	24	PTRC	
0	(0)	ADDRESS	4	PTRC_TUID_ALET@	Address of ALET for the target UIDs area.
4	(4)	ADDRESS	4	PTRC_TUID@	Address of a 3-word area that contains the REAL, EFFECTIVE, and SAVED UIDs (in that order) for the target process.
8	(8)	ADDRESS	4	PTRC_TGID_ALET@	Address of ALET for the target GIDs area.
12	(C)	ADDRESS	4	PTRC_TGID@	Address of a 3-word area that contains the REAL, EFFECTIVE, and SAVED GIDs (in that order) for the target process.
16	(10)	ADDRESS	4	PTRC_TPID_ALET@	Address of ALET for the target PID.
20	(14)	ADDRESS	4	PTRC_TPID@	Address of a word that contains the PID of the target process.

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	40	MFSP	
0	(0)	ADDRESS	4	MFSP_MODE_ALET@	Address of the ALET for the mode structure.
4	(4)	ADDRESS	4	MFSP_MODE@	Address of the mode parameter.
8	(8)	ADDRESS	4	MFSP_OFSP_ALET@	Address of the ALET for the output FSP.
12	(C)	ADDRESS	4	MFSP_OFSP@	Address of the output FSP.
16	(10)	ADDRESS	4	MFSP_ODFSP_ALET@	Address of the ALET for the owning directory FSP.
20	(14)	ADDRESS	4	MFSP_ODFSP@	Address of the owning directory FSP.
24	(18)	ADDRESS	4	MFSP_FID_ALET@	Address of the ALET for the file ID.
28	(1C)	ADDRESS	4	MFSP_FID@	Address of the file ID which is a 16-byte area that contains a unique ID of the file.

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
32	(20)	ADDRESS	4	MFSP_CRED_ALET@	Address of the ALET for the CRED structure.
36	(24)	ADDRESS	4	MFSP_CRED@	Address of the CRED structure.

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	48	RAUD	
0	(0)	ADDRESS	4	RAUD_CRED_ALET@	Address of ALET for CRED structure.
4	(4)	ADDRESS	4	RAUD_CRED@	Address of the CRED structure.
8	(8)	ADDRESS	4	RAUD_OFID_ALET@	Address of ALET for the file Id of the old (or only) file.
12	(C)	ADDRESS	4	RAUD_OFID@	Address of the file ID for the old (or only) file. The file Id is a 16-byte area that contains a unique ID of the file.
16	(10)	ADDRESS	4	RAUD_OFSP_ALET@	Address of ALET for the FSP for the old (or only) file.
20	(14)	ADDRESS	4	RAUD_OFSP@	Address of the FSP for the old (or only) file.
24	(18)	ADDRESS	4	RAUD_FLAG_ALET@	Address of ALET for the flag byte.
28	(1C)	ADDRESS	4	RAUD_FLAG@	Address of a flag byte that indicates: X'00' - last link was not removed. X'01' - last link was removed for a file. The file is deleted. This parameter is used only on rename and unlink. On a rename, the new name is deleted. On unlink, the 'only' name was deleted.
32	(20)	ADDRESS	4	RAUD_NFID_ALET@	Address of ALET for the file Id of the NEW file. This parameter is used only on a rename.
36	(24)	ADDRESS	4	RAUD_NFID@	Address of the file ID for the NEW file. This parameter is used only on a rename. The file ID is a 16-byte area that contains a unique ID of the file.
40	(28)	ADDRESS	4	RAUD_NFSP_ALET@	Address of ALET for the FSP for the NEW file. This parameter is used only on a rename.
44	(2C)	ADDRESS	4	RAUD_NFSP@	Address of the FSP for the NEW file. This parameter is used only on a rename.

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	48	GUGP	
0	(0)	ADDRESS	4	GUGP_KEY_ALET@	Address of ALET for the user's key.
4	(4)	ADDRESS	4	GUGP_KEY@	Address of a byte that contains the user's key. The key is in the high-order 4 bits of the byte.
8	(8)	ADDRESS	4	GUGP_NLEN_ALET@	Address of ALET for the USERID length.
12	(C)	ADDRESS	4	GUGP_NLEN@	Address of 1-byte USERID length.
16	(10)	ADDRESS	4	GUGP_NAME_ALET@	Address of ALET for the USERID.
20	(14)	ADDRESS	4	GUGP_NAME@	Address of 8-byte USERID.
24	(18)	ADDRESS	4	GUGP_GCNT_ALET@	Address of ALET for the group count.
28	(1C)	ADDRESS	4	GUGP_GCNT@	Address of the group count. (A one-word area that contains the number of GIDs in the grouplist area.)
32	(20)	ADDRESS	4	GUGP_GLST_ALET@	Address of ALET for the group list.
36	(24)	ADDRESS	4	GUGP_GLST@	Address of the group list area in which supplemental GIDs are returned.
40	(28)	ADDRESS	4	GUGP_GNUM_ALET@	Address of ALET for number of groups.
44	(2C)	ADDRESS	4	GUGP_GNUM@	Address of the number of groups (a one-word area in which the number of supplemental group GIDs is returned).

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	40	FORK	
0	(0)	ADDRESS	4	FORK_FLAG_ALET@	Address of ALET for fork flag.

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Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
4	(4)	ADDRESS	4	FORK_FLAG@	Address of a word flag that indicates the current type of processing: X'00' - Fork parent processing X'01' - Fork child processing
8	(8)	ADDRESS	4	FORK_DATAKEY_ALET@	Address of ALET for data's storage key.
12	(C)	ADDRESS	4	FORK_DATAKEY@	Address of a word that contains the storage key from which the storage for the data is to be obtained.
16	(10)	ADDRESS	4	FORK_DATALEN_ALET@	Address of ALET for data length.
20	(14)	ADDRESS	4	FORK_DATALEN@	Address of a word that contains the data length.
24	(18)	ADDRESS	4	FORK_DATA_ALET@	Address of the data's ALET.
28	(1C)	ADDRESS	4	FORK_DATA@	Address of the data being passed from the parent to the child via FORK.
32	(20)	ADDRESS	4	FORK_DATASP_ALET@	Address of ALET for data subpool.
36	(24)	ADDRESS	4	FORK_DATASP@	Address of a word that contains the subpool from which to obtain the storage to hold the data.

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	32	MISP	
0	(0)	ADDRESS	4	MISP_MODE_ALET@	Address of the ALET for the mode structure.
4	(4)	ADDRESS	4	MISP_MODE@	Address of the mode parameter.
8	(8)	ADDRESS	4	MISP_OISP_ALET@	Address of the ALET for the output ISP.
12	(C)	ADDRESS	4	MISP_OISP@	Address of the output ISP.
16	(10)	ADDRESS	4	MISP_OIPC_ALET@	Address of the ALET for the output IPCP.
20	(14)	ADDRESS	4	MISP_OIPC@	Address of the output IPCP.
24	(18)	ADDRESS	4	MISP_CREI_ALET@	Address of the ALET for the CREDIPC structure.
28	(1C)	ADDRESS	4	MISP_CREI@	Address of the CREDIPC structure.

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	24	IACC	
0	(0)	ADDRESS	4	IACC_ACODE_ALET@	Address of the ALET for the access code.
4	(4)	ADDRESS	4	IACC_ACODE@	Address of a 1-byte access code that contains: X'00' - No access X'02' - Write access X'04' - Read access X'06' - Read and write access
8	(8)	ADDRESS	4	IACC_ISP_ALET@	Address of the ALET for the ISP structure.
12	(C)	ADDRESS	4	IACC_ISP@	Address of the ISP structure.
16	(10)	ADDRESS	4	IACC_CREI_ALET@	Address of the ALET for the CREDIPC structure.
20	(14)	ADDRESS	4	IACC_CREI@	Address of the CREDIPC structure.

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	48	IOWN	
0	(0)	ADDRESS	4	IOWN_CMD_ALET@	Address of ALET for cmd code.
4	(4)	ADDRESS	4	IOWN_CMD@	Address of cmd code.
8	(8)	ADDRESS	4	IOWN_UID_ALET@	Address of ALET for UID to be set.
12	(C)	ADDRESS	4	IOWN_UID@	Address of the UID to be set as the ISP owner UID.
16	(10)	ADDRESS	4	IOWN_GID_ALET@	Address of ALET for GID to be set.
20	(14)	ADDRESS	4	IOWN_GID@	Address of the GID to be set as the ISP owner GID.
24	(18)	ADDRESS	4	IOWN_MODE_ALET@	Address of the ALET for the mode structure.
28	(1C)	ADDRESS	4	IOWN_MODE@	Address of the mode parameter.
32	(20)	ADDRESS	4	IOWN_ISP_ALET@	Address of the ALET for the ISP structure.
36	(24)	ADDRESS	4	IOWN_ISP@	Address of the ISP structure.
40	(28)	ADDRESS	4	IOWN_CREI_ALET@	Address of the ALET for the CREDIPC structure.
44	(2C)	ADDRESS	4	IOWN_CREI@	Address of the CREDIPC structure.

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	40	CKO2	
0	(0)	ADDRESS	4	CKO2_FSP1_ALET@	Address of ALET for the first FSP structure.
4	(4)	ADDRESS	4	CKO2_FSP1@	Address of the first FSP structure.
8	(8)	ADDRESS	4	CKO2_FSP2_ALET@	Address of ALET for the second FSP structure.
12	(C)	ADDRESS	4	CKO2_FSP2@	Address of the second FSP structure.
16	(10)	ADDRESS	4	CKO2_FID1_ALET@	Address of the ALET for the first file ID.
20	(14)	ADDRESS	4	CKO2_FID1@	Address of the first file ID.
24	(18)	ADDRESS	4	CKO2_FID2_ALET@	Address of the ALET for the second file ID.
28	(1C)	ADDRESS	4	CKO2_FID2@	Address of the second file ID.
32	(20)	ADDRESS	4	CKO2_CRED_ALET@	Address of the ALET for the CRED structure.
36	(24)	ADDRESS	4	CKO2_CRED@	Address of the CRED structure.

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	56	GETE	
0	(0)	ADDRESS	4	GETE_WORKB_ALET@	Address of ALET for 1024 byte work area.
4	(4)	ADDRESS	4	GETE_WORKB@	Address of 1024-byte work area.
8	(8)	ADDRESS	4	GETE_KEY_ALET@	Address of ALET for the user's key.
12	(C)	ADDRESS	4	GETE_KEY@	Address of a byte that contains the user's key. The key is in the high order 4 bits of the byte.
16	(10)	ADDRESS	4	GETE_GCNT_ALET@	Address of ALET for the group count.
20	(14)	ADDRESS	4	GETE_GCNT@	Address of the group count. A one-word area that contains the number of GIDs in the grouplist area.
24	(18)	ADDRESS	4	GETE_GLST_ALET@	Address of ALET for the group list.
28	(1C)	ADDRESS	4	GETE_GLST@	Address of the group list area in which supplemental GIDs are returned.
32	(20)	ADDRESS	4	GETE_GNUM_ALET@	Address of ALET for the number of groups.
36	(24)	ADDRESS	4	GETE_GNUM@	Address of the number of groups. A one-word area in which the number of supplemental group GIDs is returned.
40	(28)	ADDRESS	4	GETE_UID_ALET@	Address of ALET for the UIDs.
44	(2C)	ADDRESS	4	GETE_UID@	Address of a 3-word output area. This area contains the real, effective and saved UIDs.
48	(30)	ADDRESS	4	GETE_GID_ALET@	Address of ALET for the GIDs.
52	(34)	ADDRESS	4	GETE_GID@	Address of a 3-word output area. This area contains the real, effective, and saved GIDs.

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	32	DKEY	
0	(0)	ADDRESS	4	DKEY_FUNC_ALET@	Address of ALET for function code.
4	(4)	ADDRESS	4	DKEY_FUNC@	Address of 1-byte function code.
8	(8)	ADDRESS	4	DKEY_USERID_ALET@	Address of ALET for the RACF user ID.
12	(C)	ADDRESS	4	DKEY_USERID@	Address of a 9-byte area that contains a 1-byte length followed by a user ID of up to 8 chars.
16	(10)	ADDRESS	4	DKEY_KEY_ALET@	Address of ALET for the DCE key.
20	(14)	ADDRESS	4	DKEY_KEY@	Address of the output key area if retrieving the DCE key or the new key if setting the user's DCE key.
24	(18)	ADDRESS	4	DKEY_KEYL_ALET@	Address of ALET for the DCE key length.
28	(1C)	ADDRESS	4	DKEY_KEYL@	Address of a word containing the DCE key length.

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	40	DINF	
0	(0)	ADDRESS	4	DINF_FUNC_ALET@	Address of ALET for function code.
4	(4)	ADDRESS	4	DINF_FUNC@	Address of 1-byte function code.
8	(8)	ADDRESS	4	DINF_USERID_ALET@	Address of ALET for the RACF user ID.
12	(C)	ADDRESS	4	DINF_USERID@	Address of a 9-byte area that contains a 1-byte length followed by a user ID of up to 8 chars.

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Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
16	(10)	ADDRESS	4	DINF_FIELDL_ALET@	Address of ALET for the field list.
20	(14)	ADDRESS	4	DINF_FIELDL@	Address of an area containing the input Field_list.
24	(18)	ADDRESS	4	DINF_OUTPUTA_ALET@	Address of ALET for the output area.
28	(1C)	ADDRESS	4	DINF_OUTPUTA@	Address of an area containing the contents of data obtained.
32	(20)	ADDRESS	4	DINF_OUTPUTL_ALET@	Address of ALET for the output area length.
36	(24)	ADDRESS	4	DINF_OUTPUTL@	Address of a word containing the output area length.

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	*	DINF_FIELD_LIST	
0	(0)	UNSIGNED	2	DINF_FIELD_LIST_LEN	Len in bytes of field list
2	(2)	UNSIGNED	2	DINF_FIELD_LIST_CNT	Number fields in field list
4	(4)	CHARACTER	*	DINF_FIELD_LIST_ST	Fields start here

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	*	DINF_FIELDS	
0	(0)	CHARACTER	8	DINF_FIELD_NAME	Name of field
8	(8)	UNSIGNED	2	DINF_FIELD_LEN	Length of field
10	(A)	CHARACTER	*	DINF_FIELD_DATA	Field data

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	*	DINF_OUTPUT_AREA	
0	(0)	UNSIGNED	2	DINF_OUTPUT_AREA_LEN	Length in bytes of output area
2	(2)	UNSIGNED	2	DINF_OUTPUT_AREA_CNT	Number fields in output data
4	(4)	CHARACTER	*	DINF_OUTPUT_AREA_ST	Output starts here

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	*	DINF_OUTPUT_FLD	
0	(0)	CHARACTER	8	DINF_OUTPUT_FLD_NAME	Name of field
8	(8)	UNSIGNED	2	DINF_OUTPUT_FLD_LEN	Length of this output piece
10	(A)	CHARACTER	*	DINF_OUTPUT_FLD_DATA	Data retrieved

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	32	DRUR	
0	(0)	ADDRESS	4	DRUR_FUNC_ALET@	Address of ALET for function code.
4	(4)	ADDRESS	4	DRUR_FUNC@	Address of 1-byte function code.
8	(8)	ADDRESS	4	DRUR_PRIN_UUID_ALET@	Address of ALET for the DCE principal UUID.
12	(C)	ADDRESS	4	DRUR_PRIN_UUID@	Address of a 36-byte input/output area for the DCE principal UUID.
16	(10)	ADDRESS	4	DRUR_HOME_UUID_ALET@	Address of ALET for the DCE home cell UUID.
20	(14)	ADDRESS	4	DRUR_HOME_UUID@	Address of a 36-byte input/output area for the DCE home cell UUID.
24	(18)	ADDRESS	4	DRUR_USERID_ALET@	Address of ALET for the RACF user ID.
28	(1C)	ADDRESS	4	DRUR_USERID@	Address of a 9-byte input/output area for the RACF user ID. (1 byte for the length followed by up to 8 bytes for the RACF user ID itself.)

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	36	DAUT	
0	(0)	ADDRESS	4	DAUT_ACEEP@	Address of a word containing the address of a previously created ACEE (or 0).
4	(4)	ADDRESS	4	DAUT_ALET@	Address of ALET for the following variables.
8	(8)	ADDRESS	4	DAUT_PRIN_UUID@	Address of a 36-byte area for the DCE principal UUID.
12	(C)	ADDRESS	4	DAUT_HOME_UUID@	Address of a 36-byte area for the DCE home cell UUID.
16	(10)	ADDRESS	4	DAUT_USERID@	Address of a 9-byte area for the RACF user ID. (1 byte for the length followed by up to 8 bytes for the RACF user ID itself.)
20	(14)	ADDRESS	4	DAUT_CLASS_NAME@	Address of an 8-byte area for the RACF class name of a resource. The class name must be left-justified and padded to the right with blanks.
24	(18)	ADDRESS	4	DAUT_ENT_NAME@	Address of an area for the RACF resource profile name.
28	(1C)	ADDRESS	4	DAUT_ENT_LEN@	Address of a 2-byte area containing the length of the RACF resource profile name.
32	(20)	ADDRESS	4	DAUT_ACC_REQ@	Address of a 1-byte area containing the requested access to the resource.

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	44	INTA	
0	(0)	ADDRESS	4	INTA_FUNC@	Address of 1 byte function code.
4	(4)	ADDRESS	4	INTA_ATTRIBUTES@	Address of a full word area which contains the attributes flags for the service.
8	(8)	ADDRESS	4	INTA_USERID@	Address of 9 byte area for the RACF userid. (1 byte for the length followed by up to 8 bytes for the RACF userid itself.)
12	(C)	ADDRESS	4	INTA_ACEEP@	Address of a full word input/output area for the ACEE address.
16	(10)	ADDRESS	4	INTA_APPL_ID@	Address of a 9-byte area which specifies the name of the application being accessed by the user. (1 byte for the length followed by up to 8 bytes for the application name itself.)
20	(14)	ADDRESS	4	INTA_PASSWORD@	Address of an 9-byte area containing the user's password or PassTicket. (1 byte for the length followed by up to 8 bytes for the password itself.)
24	(18)	ADDRESS	4	INTA_LOGSTRING@	Address of a variable length area containing the log string to be passed to RACROUTE. (1 byte for the length followed by up to 255 bytes for the log string itself.)
		1... ..		INTA_LAST_PARM_VER1	Variable length parameter. This is the last parameter for plist version 1.
28	(1C)	ADDRESS	4	INTA_CERTIFICATE@	Address of a variable length area containing the X.509 certificate identifying the user. This is a fullword length followed by the certificate itself. A length of zero indicates that the certificate is not present.
		1... ..		INTA_LAST_PARM_VER2	Variable length parameter list. This is the last parameter for plist version 2.
32	(20)	ADDRESS	4	INTA_ENVR_IN@	Address of an area containing the data structure to re-create the security environment.
		1... ..		INTA_LAST_PARM_ENVR_IN	Variable length parameter list. This could be the last parameter for plist version 3.
36	(24)	ADDRESS	4	INTA_ENVR_OUT@	Address of an area containing the data structure to retrieve the security environment.
		1... ..		INTA_LAST_PARM_ENVR_OUT	Variable length parameter list. This could be the last parameter for plist version 3.
40	(28)	ADDRESS	4	INTA_OUTA_STOR@	Address of an area containing the OUSP.

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Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		1... ..		INTA_LAST_PARM_OUTA_STOR	Variable length parameter list. This could be the last parameter for plist version 3.
		1... ..		INTA_LAST_PARM	Variable length parameter list.

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	4	INTA_ATTRIBUTES_MAP	ACEE should be managed (CREATE only) Initialize a USP for the ACEE (CREATE only) For CREATE, ON indicates chain ACEE to the TCB. OFF indicates return ACEE address via the INTA_ACEEP@ field. For DELETE, ON indicates get address from the TCB. OFF indicates ACEE address passed through INTA_ACEEP@.
		1... ..		INTA_MANAGED	
		.1.. ..		INTA_USP	
		..1.		INTA_TASK_LVL	
		...1		INTA_UNAUTH_CLNT	Unauthenticated client
		.... 1..		INTA_AUTH_CLNT	Authenticated client
		.... .1..		INTA_MSG_SUPP	ON to suppress RACF messages produced as a result of creating an ACEE
		.... ..1.		INTA_ENVR_RET	ON to return an ENVR object for the ACEE (CREATE only)
		.... ....1		INTA_NO_TIMEOUT	ON to create a no timeout managed ACEE (CREATE only)
		.... ..		INTA_OUSP_RET	ON to return an OUSP (CREATE only)
		1... ..		*	Reserved
			*	
		.111 1111		*	
		1111 1111		*	
		1111 1111		*	

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	24	ADMN	
0	(0)	ADDRESS	4	ADMN_FUNC@	Address of the byte containing the function code.
4	(4)	ADDRESS	4	ADMN_PARMLIST@	Address of the function specific parameter list.
8	(8)	ADDRESS	4	ADMN_USERID@	Address of the 9 byte area containing a length byte of the RACF user ID followed by up to 8 characters which is the RACF user ID.
12	(C)	ADDRESS	4	ADMN_ACEEP@	Address of a full word containing the ACEE address associated with the user ID whose RACF authority is used with processing this administrative request.
16	(10)	ADDRESS	4	ADMN_OUTPUT_SP@	Address of a one byte field that specifies the subpool to be used to obtain storage for output messages returned.
20	(14)	ADDRESS	4	ADMN_OUTPUT_MSG@	Address of a fullword in which the service routine stores the address of the output message block linked list if messages are returned. The caller is responsible for freeing this storage.
		1... ..		ADMN_LAST_PARM	Last parameter in variable parameter list. A value of '1' binary indicates the last parameter.

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	15	ADMN_USRADM_MAP	Function codes 1-4: Mapping for Add/Alter/Delete/List user
0	(0)	STRUCTURE	9	ADMN_USRADM_USER	User: For Delete, this is the only required field
0	(0)	UNSIGNED	1	ADMN_USRADM_USER_LEN	Length of user ID
1	(1)	CHARACTER	8	ADMN_USRADM_USER_ID	User ID
9	(9)	*	1	*	Reserved (for alignment)
10	(A)	UNSIGNED	2	ADMN_USRADM_ERROFF	Offset to segment/field in error

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
12	(C)	UNSIGNED	2	ADMN_USRADM_SEG_NUM	Number of segments to update or list
14	(E)	CHARACTER	1	ADMN_USRADM_SEGSTRT	First segment entry

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	*	ADMN_RUNCOMD_MAP	Function 5 mapping for running a command
0	(0)	UNSIGNED	2	ADMN_RUNCOMD_LEN	Length of command string
2	(2)	CHARACTER	*	ADMN_RUNCOMD_CMD	Command string

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	12	ADMN_USRADM_SEGENTRY	Mapping for segment entry.
0	(0)	CHARACTER	8	ADMN_USRADM_SEG_NAME	Profile segment name.
8	(8)	CHARACTER	1	ADMN_USRADM_SEG_FLAG	Flag byte for segment.
9	(9)	UNSIGNED	2	ADMN_USRADM_FLD_NUM	Number of fields within segment. Set to 0 for list function.
11	(B)	CHARACTER	1	ADMN_USRADM_FLDSTRT	Start of first field entry for segment.

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	*	ADMN_USRADM_FLDENTRY	Mapping for field entry
0	(0)	CHARACTER	8	ADMN_USRADM_FLD_NAME	Segment field name
8	(8)	CHARACTER	1	ADMN_USRADM_FLD_FLAG	Flag byte for flag
9	(9)	UNSIGNED	2	ADMN_USRADM_FLD_LEN	Field data length
11	(B)	CHARACTER	*	ADMN_USRADM_FLD_DATA	Start of field data
11	(B)	CHARACTER	*	ADMN_USRADM_FLD_DATA	Start of field data

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	15	ADMN_GRPADM_MAP	Function codes 6-9 mapping for add, alter, delete, list group
0	(0)	STRUCTURE	9	ADMN_GRPADM_GROUP	Group: for delete, this is the only required field
0	(0)	UNSIGNED	1	ADMN_GRPADM_GRP_LEN	Length of group ID
1	(1)	CHARACTER	8	ADMN_GRPADM_GRP_ID	Group ID
9	(9)	*	1	*	Reserved (for alignment)
10	(A)	UNSIGNED	2	ADMN_GRPADM_ERROFF	Offset to segment/field in error
12	(C)	UNSIGNED	2	ADMN_GRPADM_SEG_NUM	Number of segments to update or list
14	(E)	CHARACTER	1	ADMN_GRPADM_SEGSTRT	First segment entry

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	15	ADMN_RESADM_MAP	Function codes 12-20 mapping for add/alt/del/list resource; add/alt/del/list data set; and permit
0	(0)	STRUCTURE	9	ADMN_RESADM_CLASS	Resource: for delete, this is the only required field
0	(0)	UNSIGNED	1	ADMN_RESADM_CLAS_LEN	Length of class name
1	(1)	CHARACTER	8	ADMN_RESADM_CLAS_NAM	Class name
9	(9)	*	1	*	Reserved (for alignment)
10	(A)	UNSIGNED	2	ADMN_RESADM_ERROFF	Offset to segment/field in error
12	(C)	UNSIGNED	2	ADMN_RESADM_SEG_NUM	Number of segments to update or list
14	(E)	CHARACTER	1	ADMN_RESADM_SEGSTRT	First segment entry

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	17	ADMN_OUTMSG_MAP	R_admin output mapping

COMP

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	ADDRESS	4	ADMN_OUT_NEXT	Address of next block or 0
4	(4)	CHARACTER	4	ADMN_OUT_EYE	Eye catcher: "RMSG"
8	(8)	UNSIGNED	1	ADMN_OUT_SPID	Subpool ID of this block
9	(9)	UNSIGNED	3	ADMN_OUT_LEN	Total block length
12	(C)	UNSIGNED	4	ADMN_OUT_OFF	Offset to first byte after the last message. Offset value is relative to ADMN_OUTMSG_MAP
16	(10)	CHARACTER	1	ADMN_OUT_STRT	Start of first message in block

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	*	ADMN_OUT_ENTRY	Individual message entry
0	(0)	UNSIGNED	2	ADMN_OUT_MLEN	Length of this message
2	(2)	CHARACTER	*	ADMN_OUT_MSTR	Variable message string

Constants

Len	Type	Value	Name	Description
4	DECIMAL	28	COMP_LEN	Constant COMP length
4	DECIMAL	8	IUSP_LEN	Constant IUSP length
4	DECIMAL	16	CSID_LEN	Constant CSID length
4	DECIMAL	40	EXID_LEN	Constant EXID length
4	DECIMAL	32	GETG_LEN	Constant GETG length
4	DECIMAL	8	CHKP_LEN	Constant CHKP length
4	DECIMAL	24	GMAP_LEN	Constant GMAP length
4	DECIMAL	32	CKPO_LEN	Constant CKPO length
4	DECIMAL	1	CKPO_KILL_AUDIT	KILL AUDIT Constant
4	DECIMAL	2	CKPO_KILL	Kill Verification.
4	DECIMAL	3	CKPO_GETPSENT	Caller is GETPSENT.
4	DECIMAL	4	CKPO_OPEN_STTY	Open Slave TTY
4	DECIMAL	4	CKPO_MAX_REQ_TYPE	Max Request Type
4	DECIMAL	16	QRYS_LEN	Constant QRYS length
4	DECIMAL	32	CMOD_LEN	Constant CMOD length
4	DECIMAL	24	CLID_LEN	Constant CLID length
4	DECIMAL	32	CAUD_LEN	Constant CAUD length
4	DECIMAL	40	COWN_LEN	Constant COWN length
4	DECIMAL	8	UMSK_LEN	Constant UMSK length
4	DECIMAL	40	KACC_LEN	Constant KACC length
4	DECIMAL	16	QRYF_LEN	Constant QRYF length
4	DECIMAL	24	KFOW_LEN	Constant KFOW length
4	DECIMAL	32	MKRT_LEN	Constant MKRT length
4	DECIMAL	24	PTRC_LEN	Constant PTRC length
4	DECIMAL	40	MFSP_LEN	Constant MFSP length
4	DECIMAL	48	RAUD_LEN	Constant RAUD length
4	DECIMAL	48	GUGP_LEN	Constant GUGP length
4	DECIMAL	40	FORK_LEN	Constant FORK length
4	DECIMAL	0	FORK_PARENT	Fork Parent Processing flag
4	DECIMAL	1	FORK_CHILD	Fork Child Processing flag
4	DECIMAL	32	MISP_LEN	Constant MISP length
4	DECIMAL	24	IACC_LEN	Constant IACC length
4	DECIMAL	48	IOWN_LEN	Constant IOWN length
4	DECIMAL	40	CKO2_LEN	Constant CKO2 length
4	DECIMAL	56	GETE_LEN	Constant GETE length
4	DECIMAL	32	DKEY_LEN	Constant DKEY length
4	DECIMAL	40	DINF_LEN	Constant DINF length
4	DECIMAL	32	DRUR_LEN	Constant DRUR length
4	DECIMAL	36	DAUT_LEN	Constant DAUT length
4	DECIMAL	44	INTA_LEN	Constant INTA length
4	DECIMAL	1	INTA_CREATE	Create an ACEE
4	DECIMAL	2	INTA_DELETE	Delete an ACEE and USP if applicable
4	DECIMAL	3	INTA_PURGE	Purge space related ACEE management resource
4	DECIMAL	4	INTA_REGSTR	Register a certificate for the current ACEE
4	DECIMAL	5	INTA_DEREGS	Deregister a certificate for the current ACEE

Len	Type	Value	Name	Description
4	DECIMAL	6	INTA_QUERY	Query a certificate for an associated user ID
8	DECIMAL	1	ADMN_ADD_USER	ADD a user
8	DECIMAL	2	ADMN_DEL_USER	Delete a user
8	DECIMAL	3	ADMN_ALT_USER	Alter a user
8	DECIMAL	4	ADMN_LST_USER	List a user
8	DECIMAL	5	ADMN_RUN_COMD	Run a RACF command
8	DECIMAL	6	ADMN_ADD_GROUP	Add a group
8	DECIMAL	7	ADMN_DEL_GROUP	Delete a group
8	DECIMAL	8	ADMN_ALT_GROUP	Alter a group
8	DECIMAL	9	ADMN_LST_GROUP	List a group
8	DECIMAL	10	ADMN_CONNECT	Connect user to group
8	DECIMAL	11	ADMN_REMOVE	Remove user from group
8	DECIMAL	12	ADMN_ADD_GENRES	Add a resource
8	DECIMAL	13	ADMN_DEL_GENRES	Delete a resource
8	DECIMAL	14	ADMN_ALT_GENRES	Alter a resource
8	DECIMAL	15	ADMN_LST_GENRES	List a resource
8	DECIMAL	16	ADMN_ADD_DS	Add a dataset
8	DECIMAL	17	ADMN_DEL_DS	Delete a dataset
8	DECIMAL	18	ADMN_ALT_DS	Alter a dataset
8	DECIMAL	19	ADMN_LST_DS	List a dataset
8	DECIMAL	20	ADMN_PERMIT	Permit a user or group
8	DECIMAL	21	ADMN_OUT_RMSG	Defines the eye catcher (RMSG) in the output message block

Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
ADMN	0		1	ADMN_USRADM_FLD_FLAG	8		2
ADMN_ACEEP@	C		2	ADMN_USRADM_FLD_LEN	9		2
ADMN_FUNC@	0		2	ADMN_USRADM_FLD_NAME	0		2
ADMN_GRPADM_ERROFF	10		2	ADMN_USRADM_FLD_NUM	9		2
ADMN_GRPADM_GROUP	0		2	ADMN_USRADM_MAP	0		1
ADMN_GRPADM_GRP_ID	1		2	ADMN_USRADM_SEGENTRY	0		1
ADMN_GRPADM_GRP_LEN	0		2	ADMN_USRADM_SEGSTRT	E		2
ADMN_GRPADM_MAP	0		1	ADMN_USRADM_SEG_FLAG	8		2
ADMN_GRPADM_SEG_NUM	C		2	ADMN_USRADM_SEG_NAME	0		2
ADMN_GRPADM_SEGSTRT	E		2	ADMN_USRADM_SEG_NUM	C		2
ADMN_OUT_ENTRY	0		1	ADMN_USRADM_USER	0		2
ADMN_OUT_EYE	4		2	ADMN_USRADM_USER_ID	1		3
ADMN_OUT_LEN	9		2	ADMN_USRADM_USER_LEN	0		3
ADMN_OUT_MLEN	0		2	ADMN_USERID@	8		2
ADMN_OUT_MSG@	14		2	CAUD	0		1
ADMN_OUT_MSTR	2		2	CAUD_AO_ALET@	0		2
ADMN_OUT_NEXT	0		2	CAUD_AO@	4		2
ADMN_OUT_OFF	C		2	CAUD_CRED_ALET@	18		2
ADMN_OUT_SPID	8		2	CAUD_CRED@	1C		2
ADMN_OUT_SP@	10		2	CAUD_FID_ALET@	10		2
ADMN_OUT_STRT	10		2	CAUD_FID@	14		2
ADMN_OUTMSG_MAP	0		1	CAUD_FSP_ALET@	8		2
ADMN_PARMLIST@	4		2	CAUD_FSP@	C		2
ADMN_RESADM_CLAS_LEN	0		2	CHKP	0		1
ADMN_RESADM_CLAS_NAM	1		2	CHKP_AUFC_ALET@	0		2
ADMN_RESADM_CLASS	0		2	CHKP_AUFC@	4		2
ADMN_RESADM_ERROFF	A		2	CKO2	0		1
ADMN_RESADM_MAP	0		1	CKO2_CRED_ALET@	20		2
ADMN_RESADM_SEG_NUM	C		2	CKO2_CRED@	24		2
ADMN_RESADM_SEGSTRT	E		2	CKO2_FID1_ALET@	10		2
ADMN_RUNCOMD_CMD	2		2	CKO2_FID1@	14		2
ADMN_RUNCOMD_LEN	0		2	CKO2_FID2_ALET@	18		2
ADMN_RUNCOMD_MAP	0		1	CKO2_FID2@	1C		2
ADMN_USRADM_ERROFF	A		2	CKO2_FSP1_ALET@	0		2
ADMN_USRADM_FLDENTRY	0		1	CKO2_FSP1@	4		2
ADMN_USRADM_FLDSTRT	B		2	CKO2_FSP2_ALET@	8		2
ADMN_USRADM_FLD_DATA	B		2	CKO2_FSP2@	C		2

COMP

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
CKPO	0		1	DINF_FIELDL@	14		2
CKPO_CODE_ALET@	18		2	DINF_FIELDL_ALET@	10		2
CKPO_CODE@	1C		2	DINF_FIELDL@	14		2
CKPO_PID_ALET@	10		2	DINF_FIELDS	0		2
CKPO_PID@	14		2	DINF_FIELD_DATA	0		2
CKPO_REQT_ALET@	0		2	DINF_FIELD_LEN	0		2
CKPO_REQT@	4		2	DINF_FIELD_NAME	0		2
CKPO_UIDS_ALET@	8		2	DINF_FUNC@	4		2
CKPO_UIDS@	C		2	DINF_FUNC_ALET@	0		2
CLID	0		1	DINF_OUTPUT_AREA	0		2
CLID_CRED_ALET@	10		2	DINF_OUTPUT_AREA_CNT	2		2
CLID_CRED@	14		2	DINF_OUTPUT_AREA_LEN	2		2
CLID_FID_ALET@	8		2	DINF_OUTPUT_AREA_ST	2		2
CLID_FID@	C		2	DINF_OUTPUT_FLD	0		2
CLID_FSP_ALET@	0		2	DINF_OUTPUT_FLD_DATA	*		2
CLID_FSP@	4		2	DINF_OUTPUT_FLD_LEN	2		2
CMOD	0		1	DINF_OUTPUT_FLD_NAME	8		2
CMOD_CRED_ALET@	18		2	DINF_OUTPUTA_ALET@	18		2
CMOD_CRED@	1C		2	DINF_OUTPUTA@	1C		2
CMOD_FID_ALET@	10		2	DINF_OUTPUTL_ALET@	20		2
CMOD_FID@	14		2	DINF_OUTPUTL@	24		2
CMOD_FSP_ALET@	8		2	DINF_USERID_ALET@	8		2
CMOD_FSP@	C		2	DINF_USERID@	C		2
CMOD_MODE_ALET@	0		2	DKEY	0		1
CMOD_MODE@	4		2	DKEY_FUNC_ALET@	0		2
COMP	0		1	DKEY_FUNC@	4		2
COMP_RACRC_ALET@	C		2	DKEY_KEY_ALET@	10		2
COMP_RACRC_STOR@	10		2	DKEY_KEY@	14		2
COMP_RACSC_ALET@	14		2	DKEY_KEYL_ALET@	18		2
COMP_RACSC_STOR@	18		2	DKEY_KEYL@	1C		2
COMP_SAFRC_ALET@	4		2	DKEY_USERID_ALET@	8		2
COMP_SAFRC_STOR@	8		2	DKEY_USERID@	C		2
COMP_SERVR_PARMS	1C		2	DRUR	0		1
COMP_WORKA_STOR@	0		2	DRUR_FUNC_ALET@	0		2
COWN	0		1	DRUR_FUNC@	4		2
COWN_CRED_ALET@	20		2	DRUR_HOME_UUID_ALET@	10		2
COWN_CRED@	24		2	DRUR_HOME_UUID@	14		2
COWN_FID_ALET@	18		2	DRUR_PRIN_UUID_ALET@	8		2
COWN_FID@	1C		2	DRUR_PRIN_UUID@	C		2
COWN_FSP_ALET@	10		2	DRUR_USERID_ALET@	18		2
COWN_FSP@	14		2	DRUR_USERID@	1C		2
COWN_GID_ALET@	8		2	EXID	0		1
COWN_GID@	C		2	EXID_FLAG_ALET@	0		2
COWN_UID_ALET@	0		2	EXID_FLAG@	4		2
COWN_UID@	4		2	EXID_GID_ALET@	10		2
CSID	0		1	EXID_GID@	14		2
CSID_ID_ALET@	0		2	EXID_GIDO_ALET@	20		2
CSID_ID@	4		2	EXID_GIDO@	24		2
CSID_IDOA_ALET@	8		2	EXID_UID_ALET@	8		2
CSID_IDOA@	C		2	EXID_UID@	C		2
DAUT	0		1	EXID_UIDO_ALET@	18		2
DAUT_ACC_REQ@	20		2	EXID_UIDO@	1C		2
DAUT_ACEEP@	0		2	FORK	0		1
DAUT_ALET@	4		2	FORK_DATA_ALET@	18		2
DAUT_CLASS_NAME@	14		2	FORK_DATA@	1C		2
DAUT_ENT_LEN@	1C		2	FORK_DATAKEY_ALET@	8		2
DAUT_ENT_NAME@	18		2	FORK_DATAKEY@	C		2
DAUT_HOME_UUID@	C		2	FORK_DATALEN_ALET@	10		2
DAUT_PRIN_UUID@	8		2	FORK_DATALEN@	14		2
DAUT_USERID@	10		2	FORK_DATASP_ALET@	20		2
DINF	0		1	FORK_DATASP@	24		2
DINF_FIELD_LIST	0		2	FORK_FLAG_ALET@	0		2
DINF_FIELD_LIST_CNT	0		2	FORK_FLAG@	4		2
DINF_FIELD_LIST_LEN	0		2	GETE	0		1
DINF_FIELD_LIST_ST	0		2	GETE_GCNT_ALET@	10		2

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
GETE_GCNT@	14		2	INTA_OUTA_STOR@	28		2
GETE_GID_ALET@	30		2	INTA_USERID@	8		2
GETE_GID@	34		2	IOWN	0		1
GETE_GLST_ALET@	18		2	IOWN_CMD_ALET@	0		2
GETE_GLST@	1C		2	IOWN_CMD@	4		2
GETE_GNUM_ALET@	20		2	IOWN_CREI_ALET@	28		2
GETE_GNUM@	24		2	IOWN_CREI@	2C		2
GETE_KEY_ALET@	8		2	IOWN_GID_ALET@	10		2
GETE_KEY@	C		2	IOWN_GID@	14		2
GETE_UID_ALET@	28		2	IOWN_ISP_ALET@	20		2
GETE_UID@	2C		2	IOWN_ISP@	24		2
GETE_WORKB_ALET@	0		2	IOWN_MODE_ALET@	18		2
GETE_WORKB@	4		2	IOWN_MODE@	1C		2
GETG	0		1	IOWN_UID_ALET@	8		2
GETG_GCNT_ALET@	8		2	IOWN_UID@	C		2
GETG_GCNT@	C		2	IUSP	0		1
GETG_GLST_ALET@	10		2	IUSP_WORKA_ALET@	0		2
GETG_GLST@	14		2	IUSP_WORKA_STOR@	4		2
GETG_GNUM_ALET@	18		2	KACC	0		1
GETG_GNUM@	1C		2	KACC_ACODE_ALET@	0		2
GETG_KEY_ALET@	0		2	KACC_ACODE@	4		2
GETG_KEY@	4		2	KACC_CRED_ALET@	18		2
GMAP	0		1	KACC_CRED@	1C		2
GMAP_FLAG_ALET@	0		2	KACC_FID_ALET@	10		2
GMAP_FLAG@	4		2	KACC_FID@	14		2
GMAP_ID_ALET@	8		2	KACC_FLAG_ALET@	20		2
GMAP_ID@	C		2	KACC_FLAG@	24		2
GMAP_NAME_ALET@	10		2	KACC_FSP_ALET@	8		2
GMAP_NAME@	14		2	KACC_FSP@	C		2
GUGP	0		1	KFOW	0		1
GUGP_GCNT_ALET@	18		2	KFOW_CRED_ALET@	10		2
GUGP_GCNT@	1C		2	KFOW_CRED@	14		2
GUGP_GLST_ALET@	20		2	KFOW_FID_ALET@	8		2
GUGP_GLST@	24		2	KFOW_FID@	C		2
GUGP_GNUM_ALET@	28		2	KFOW_FSP_ALET@	0		2
GUGP_GNUM@	2C		2	KFOW_FSP@	4		2
GUGP_KEY_ALET@	0		2	MFSP	0		1
GUGP_KEY@	4		2	MFSP_CRED_ALET@	20		2
GUGP_NAME_ALET@	10		2	MFSP_CRED@	24		2
GUGP_NAME@	14		2	MFSP_FID_ALET@	18		2
GUGP_NLEN_ALET@	8		2	MFSP_FID@	1C		2
GUGP_NLEN@	C		2	MFSP_MODE_ALET@	0		2
IACC	0		1	MFSP_MODE@	4		2
IACC_ACODE_ALET@	0		2	MFSP_ODFSP_ALET@	10		2
IACC_ACODE@	4		2	MFSP_ODFSP@	14		2
IACC_CREI_ALET@	10		2	MFSP_OFSP_ALET@	8		2
IACC_CREI@	14		2	MFSP_OFSP@	C		2
IACC_ISP_ALET@	8		2	MISP	0		1
IACC_ISP@	C		2	MISP_CREI_ALET@	18		2
INTA	0		1	MISP_CREI@	1C		2
INTA_ACEEP@	C		2	MISP_MODE_ALET@	0		2
INTA_APPL_ID@	10		2	MISP_MODE@	4		2
INTA_ATTRIBUTES@	4		2	MISP_OIPC_ALET@	10		2
INTA_ATTRIBUTES_MAP	0		1	MISP_OIPC@	14		2
INTA_CERTIFICATE@	1C		2	MISP_OISP_ALET@	8		2
INTA_FUNC@	0		2	MISP_OISP@	C		2
INTA_LOGSTRING@	18		2	MKRT	0		1
INTA_ENVR_IN@	20		2	MKRT_DSN_ALET@	18		2
INTA_ENVR_OUT@	24		2	MKRT_DSN@	1C		2
INTA_LAST_PARM	28		3	MKRT_FID_ALET@	10		2
INTA_LAST_PARM_ENVR_IN	20		3	MKRT_FID@	14		2
INTA_LAST_PARM_ENVR_OUT	24		3	MKRT_MODE_ALET@	0		2
INTA_LAST_PARM_OUTA_STOR	28		3	MKRT_MODE@	4		2
INTA_LAST_PARM_VER2	1C		3	MKRT_OFSP_ALET@	8		2
INTA_PASSWORD@	14		2	MKRT_OFSP@	C		2

COMP

Name	Hex Offset	Hex Value	Level
PTRC	0		1
PTRC_TGID_ALET@	8		2
PTRC_TGID@	C		2
PTRC_TPID_ALET@	10		2
PTRC_TPID@	14		2
PTRC_TUID_ALET@	0		2
PTRC_TUID@	4		2
QRYF	0		1
QRYF_OCODE_ALET@	0		2
QRYF_OCODE@	4		2
QRYF_OUTV_ALET@	8		2
QRYF_OUTV@	C		2
QRYS	0		1
QRYS_OPTN_CODE_ALET@	0		2
QRYS_OPTN_CODE@	4		2
QRYS_OUTP_VAL_ALET@	8		2
QRYS_OUTP_VAL@	C		2
RAUD	0		1
RAUD_CRED_ALET@	0		2
RAUD_CRED@	4		2
RAUD_FLAG_ALET@	18		2
RAUD_FLAG@	1C		2
RAUD_NFID_ALET@	20		2
RAUD_NFID@	24		2
RAUD_NFSP_ALET@	28		2
RAUD_NFSP@	2C		2
RAUD_OFID_ALET@	8		2
RAUD_OFID@	C		2
RAUD_OFSP_ALET@	10		2
RAUD_OFSP@	14		2
UMSK	0		1
UMSK_MODE_ALET@	0		2
UMSK_MODE@	4		2

CRED: OS/390 UNIX System Services Credential Structure

Common Name: OS/390 UNIX System Services credential structure
Macro ID: IRRPCRED
DSECT Name: CRED
Owning Component: Resource Access Control Facility (SC1BN)
Eye-Catcher ID: CRED (Offset: 0, Length: 4)
Storage Attributes: Subpool Determined by caller
 Key Determined by caller
 Residency Determined by caller
Size: 64 bytes
Created by: Invoker of OS/390 UNIX security functions
Pointed to by: IRRPCOMP, the common SAF/RACF parameter list for OS/390 UNIX security functions
Serialization: N/A
Function: Maps the structure of the audit data passed by the file system to the security function

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	64	CRED	
0	(0)	CHARACTER	4	CREDID	Control Block ID
4	(4)	UNSIGNED	1	CREDSP	Subpool number for this CRED
5	(5)	UNSIGNED	3	CREDLEN	Length of this CRED
8	(8)	UNSIGNED	1	CREDVER	Version number
9	(9)	UNSIGNED	1	CREDUTYPE	User type X'01' - RACF-defined local user User type X'02' - System function caller (treated like superuser)
10	(A)	UNSIGNED	2	CREFUNCTION	Audit Function Code - identifies the syscall being processed
12	(C)	UNSIGNED	1	CREDNAMEFLG	Name flag. Indicates which name is being checked. X'01' - the first (or only) name X'02' - the second name
13	(D)	BITSTRING	1	CREDLFSFLAGS	Flag area reserved for LFS (see BPXZCRED for bit definitions)
14	(E)	CHARACTER	2	*	Reserved
16	(10)	CHARACTER	12	CREDPN1	First path name: The path name specified by the user on syscall. For rename and link, this is the OLD path name.
16	(10)	UNSIGNED	2	*	Reserved
18	(12)	UNSIGNED	2	CREDPN1LEN	Length of first path name
20	(14)	ADDRESS	4	CREDPN1ALET	ALET for first path name
24	(18)	ADDRESS	4	CREDPN1ADDR	Address of first path name
28	(1C)	CHARACTER	12	CREFDN1	First file name: The name of the part of the first path name that is being checked on the current OPEN/MVS-RACF call.
28	(1C)	UNSIGNED	2	*	Reserved
30	(1E)	UNSIGNED	2	CREFDN1LEN	Length of first file name
32	(20)	ADDRESS	4	CREFDN1ALET	ALET for first file name
36	(24)	ADDRESS	4	CREFDN1ADDR	Address of first file name
40	(28)	CHARACTER	12	CREDPN2	Second path name: The new path name specified by the user on a rename or link syscall or the content of the symbolic link on a symlink syscall or the PDSE/x data set name on a mount or unmount.
40	(28)	UNSIGNED	2	*	Reserved
42	(2A)	UNSIGNED	2	CREDPN2LEN	Length of second path name
44	(2C)	ADDRESS	4	CREDPN2ALET	ALET for second path name

CRED

Offsets			Len	Name (Dim)	Description
Dec	Hex	Type			
48	(30)	ADDRESS	4	CREDPN2ADDR	Address of second path name
52	(34)	CHARACTER	12	CREFDN2	Second file name: The name of the part of the second path name that is being checked on the current OPEN/MVS RACF call.
52	(34)	UNSIGNED	2	*	Reserved
54	(36)	UNSIGNED	2	CREFDN2LEN	Length of second file name
56	(38)	ADDRESS	4	CREFDN2ALET	ALET for second file name
60	(3C)	ADDRESS	4	CREFDN2ADDR	Address of second file name
64	(40)	CHARACTER		*	End of the Cred

Constants

Len	Type	Value	Name	Description
CredUType value definitions				
1	DECIMAL	1	CREDUTYPERACF	RACF-defined local user
1	DECIMAL	2	CREDUTYPESYS	System function caller
Miscellaneous constants				
4	CHARACTER	CRED	CRED#ID	Acronym
1	DECIMAL	3	CRED#SP	Subpool
3	DECIMAL	64	CRED#LEN	Length
1	DECIMAL	1	CRED#VERSION1	Version 1
1	DECIMAL	1	CRED#VERSION	Current Version

Cross Reference

Name	Hex Offset	Hex Value	Level
CRED	0		1
CREFDN1	1C		2
CREFDN1ADDR	24		3
CREFDN1ALET	20		3
CREFDN1LEN	1E		3
CREFDN2	34		2
CREFDN2ADDR	3C		3
CREFDN2ALET	38		3
CREFDN2LEN	36		3
CREFFUNCTION	A		2
CREDID	0		2
CREDLEN	5		2
CREDLFSFLAGS	D		2
CREDNAMEFLG	C		2
CREDPN1	10		2
CREDPN1ADDR	18		3
CREDPN1ALET	14		3
CREDPN1LEN	12		3
CREDPN2	28		2
CREDPN2ADDR	30		3
CREDPN2ALET	2C		3
CREDPN2LEN	2A		3
CREDSP	4		2
CREDUTYPE	9		2
CREDVER	8		2

CREI: OS/390 UNIX System Services Credential Structure for IPC

Common Name:	OS/390 UNIX System Services credential structure for IPC		
Macro ID:	IRRPCREI		
DSECT Name:	CREI		
Owning Component:	Resource Access Control Facility (SC1BN)		
Eye-Catcher ID:	CREI (Offset: 0, Length: 4)		
Storage Attributes:	Subpool	Determined by caller	
	Key	Determined by caller	
	Residency	Determined by caller	
Size:	64 bytes		
Created by:	Invoker of OS/390 UNIX security functions		
Pointed to by:	IRRPCOMP, the common SAF/RACF parameter list for OS/390 UNIX security functions		
Serialization:	N/A		
Function:	Maps the structure of the security credential area used in the IPC system to pass data from the kernel		

Offsets			Len	Name (Dim)	Description
Dec	Hex	Type			
0	(0)	STRUCTURE	64	CREI	
0	(0)	CHARACTER	4	CREIID	Control block ID
4	(4)	UNSIGNED	1	CREISP	Subpool number for this CREI
5	(5)	UNSIGNED	3	CREILEN	Length of this CREI
8	(8)	UNSIGNED	1	CREIVER	Version number
9	(9)	UNSIGNED	1	CREIUTYPE	User type X'01' - RACF-defined local user
					User type X'02' - System function caller (treated like superuser)
10	(A)	UNSIGNED	2	CREIFUNCTION	Audit function code - identifies the syscall being processed
12	(C)	UNSIGNED	4	CREIIPCKEY	IPC key of the IPC service that is being checked
16	(10)	UNSIGNED	4	CREIIPCID	IPC ID of the IPC service that is being checked
20	(14)	CHARACTER	44	*	Reserved
64	(40)	CHARACTER		*	End of the CREI

Constants

Len	Type	Value	Name	Description
CreiUType value definitions				
1	DECIMAL	1	CREIUTYPERACF	RACF-defined local user
1	DECIMAL	2	CREIUTYPESYS	System function caller
Miscellaneous constants				
4	CHARACTER	CREI	CREI#ID	Acronym
1	DECIMAL	3	CREI#SP	Subpool
3	DECIMAL	64	CREI#LEN	Length
1	DECIMAL	1	CREI#VERSION1	Version 1
1	DECIMAL	1	CREI#VERSION	Current Version

CREI

Cross Reference

Name	Hex Offset	Hex Value	Level
CREI	0		1
CREIFUNCTION	A		2
CREIID	0		2
CREIIPCID	10		2
CREIIPCKEY	C		2
CREILEN	5		2
CREISP	4		2
CREIUTYPE	9		2
CREIVER	8		2

DAUT: RACROUTE REQUEST=DIRAUTH Parameter List (Request Section)

Common Name: Request-specific portion of the RACROUTE REQUEST=DIRAUTH parameter list
Macro ID: None
DSECT Name: None
Owning Component: Resource Access Control Facility (SC1BN)
Eye-Catcher ID: None
Storage Attributes: Subpool Determined by caller
 Key Determined by caller
 Residency Determined by caller
Size: Varies
Created by: RACROUTE REQUEST=DIRAUTH macro
Pointed to by: Address of SAFR plus offset in SAFPRACP
Serialization: None
Function: Maps the request-specific portion of the parameter list passed to the RACROUTE REQUEST=DIRAUTH routine

Offsets			Len	Name (Dim)	Description
Dec	Hex	Type			
0	(0)	STRUCTURE	8	DAUTPARM	DIRAUTH parameters
0	(0)	BITSTRING	1	DAUTLOGP	Auditing option flags
		1... ..		DAUTASIS	1 = ASIS
		.1... ..		DAUTNFAI	1 = NOFAIL
		..11 1111		*	Reserved
1	(1)	CHARACTER	3	*	Reserved
4	(4)	ADDRESS	4	DAUTRTOK	Message RTOKEN address

Cross Reference

Name	Hex Offset	Hex Value	Level
DAUTASIS	0	80	3
DAUTLOGP	0		2
DAUTNFAI	0	40	3
DAUTPARM	0		1
DAUTRTOK	4		2

DEXP: Data Encryption Exit Parameter List

Common Name: RACF data encryption exit parameter list
Macro ID: ICHDEXP
DSECT Name: DEXPL
Owning Component: Resource Access Control Facility (XXH00)
Eye-Catcher ID: None
Storage Attributes: Subpool 229
 Key 0
Size: 32 bytes
Created by: RACXTRT SVC processor
Pointed to by: R1 at entry to ICHDEX01 and ICHDEX11
Serialization: None
Function: Contains the list of addresses passed to the RACF data encryption installation exit

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE		DEXPL	

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	ADDRESS	4	DEXLEN	Length address: points to a fullword containing the number of fullwords in this parameter list.
4	(4)	ADDRESS	4	DEXFUNC	Function code address: points to an area containing a 1-word function code whose possible values are as follows: X'00000000' 0 means encrypt the data. X'00000004' 4 means compare the data.
8	(8)	ADDRESS	4	DEXCRYPT DEXCOMP DEXDLGTH	Data length address: points to a fullword area containing the length of the clear text data and encrypted data fields.
12	(C)	ADDRESS	4	DEXCTEXT	Clear text address: points to an area containing the clear text data (the parameter DEXDLGTH at offset 8 gives the length of the data).
16	(10)	ADDRESS	4	DEXETEXT	Encrypted data address: for the compare function, points to an area containing the encrypted version that is to be compared against the clear text. For the encrypt function, the exit returns the encrypted data to the area pointed to by this address.
20	(14)	ADDRESS	4	DEXTMPLC	Template code address: points to a 1-byte area containing the code describing the template type of the field being worked on. The possible values are: X'01' 1 - Group X'02' 2 - User X'03' 3 - Connect X'04' 4 - Data set X'05' 5 - General
24	(18)	ADDRESS	4	DEXGROUP DEXUSER DEXCNECT DEXDS DEXGENRL DEXTMPLN	Template name address: points to an 8-byte area containing the template name of the field being worked on.
28	(1C)	ADDRESS	4	DEXPROF	Profile name address: points to an 8-byte area containing (the first part of) the profile name.

Cross Reference

Name	Hex Offset	Hex Value	Level
DEXCNECT	14	3	2
DEXCOMP	4	4	2
DEXCRIPT	4	0	2
DEXTTEXT	C		2
DEXTDLGTH	8		2
DEXTDS	14	4	2
DEXTETEXT	10		2
DEXTFUNC	4		2
DEXTGENRL	14	5	2
DEXTGROUP	14	1	2
DEXTLEN	0		2
DEXTPROF	1C		2
DEXTMPLC	14		2
DEXTMPLN	18		2
DEXTUSER	14	2	2

DSDT: Data Set Descriptor Table

NOT Programming Interface Information

Common Name: RACF Data Set Descriptor Table
Macro ID: ICHPDSDT
DSECT Name: DSDT
Owning Component: Resource Access Control Facility (XXH00)
Eye-Catcher ID: DSDT (Offset: 0, Length: 4)
Storage Attributes: Subpool 241 (ECSA)
 Key 0
 Residency N/A
Size: 168 bytes plus 896 bytes for each RACF primary data set
Created by: ICHSEC00
Pointed to by: RCVTDSDT field of the RCVT data area
Serialization: None
Function: Describes primary and backup RACF data sets

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	*	DSDT	Located through RCVT
0	(0)	CHARACTER	4	DSDTID	EBCDIC ID
4	(4)	SIGNED	4	DSDTNUM	Number of entries in table
8	(8)	ADDRESS	4	DSDTDSDX	Pointer to extension
12	(C)	UNSIGNED	1	DSDTVRSN	Version number of DSDT
13	(D)	CHARACTER	1	DSDTFLAG	DSDT flags or indicators
		1... ..		DSDTPFMT	Flag for primary format 0 - Indicates OLD format or no PRIMARY data sets specified at IPL. 1 - Indicates RDS Format
		.1.. ..		DSDTBFMT	Flag for backup format 0 - Indicates OLD format or no BACKUP data sets specified at IPL. 1 - Indicates RDS format
		..1.		DSDTPXST	Existence of primary databases 0 - No primary data sets specified at IPL. 1 - At least one primary data set specified at IPL.
		...1		DSDTBXST	Existence of backup databases 0 - No backup data sets specified at IPL. 1 - At least one backup data set specified at IPL.
		.... 1111		*	
14	(E)	CHARACTER	2	*	Doubleword alignment
16	(10)	CHARACTER	8	*	Reserved for expansion

GRS latch sets:

Each set contains 1 latch for each data set in the RACF database for a total for DSDTNUM latches.

24	(18)	CHARACTER	48	DSDTPLNM	GRS latch set name for Primary
72	(48)	CHARACTER	8	DSDTPLTK	GRS latch set token for Primary
80	(50)	CHARACTER	48	DSDTBLNM	GRS latch set name for Backup
128	(80)	CHARACTER	8	DSDTBLTK	GRS latch set token for Backup

RACF Sysplex Data Sharing fields:

136	(88)	BITSTRING	1	DSDTDSFL DSDTDSRQ	Data Sharing Flags
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Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
137	(89)	UNSIGNED	1	DSDTDSMO	Reserved RACF data sharing mode. (See DSDTDSMO constants below for valid values.)
138	(8A)	CHARACTER	2	*	Word alignment
140	(8C)	SIGNED	4	*	Reserved
Entry for Primary Data Set:					
144	(90)	CHARACTER	352	DSDTENTY (*)	ENTRY FOR DATA SET INFORMATION
144	(90)	CHARACTER	176	DSDTPRIM	ENTRY FOR PRIMARY DATA SET
144	(90)	ADDRESS	4	DSDPDCB	PTR DCB PRIMARY RACF DATA SET
148	(94)	ADDRESS	4	DSDPDEB	PTR DEB PRIMARY RACF DATA SET
152	(98)	ADDRESS	4	DSDPINDX	PTR TO IN-STORAGE BUFFERS OR RESIDENT INDEX TABLE. ZERO IF NO RESIDENT BLOCKS FOR THE PRIMARY DATA SET.
156	(9C)	ADDRESS	4	DSDPHDR	PTR RACF IN-STORAGE DS HEADER RECORD OR ZERO IF PRIMARY RACF DATA SET IS ON A SHARED DEVICE
160	(A0)	ADDRESS	4	DSDPRUCB	PTR UCB PRIMARY RACF DATA SET
164	(A4)	SIGNED	4	DSDPXLEN	LENGTH OF IN-STORAGE BUFFERS OR RESIDENT INDEX TABLE FOR THE PRIMARY RACF DATA SET
168	(A8)	ADDRESS	4	DSDPBAM	LOCATES IN-STORAGE BAM INFORMATION FOR PRIMARY DATA SET
172	(AC)	ADDRESS	1	DSDPDSNL	LENGTH OF PRIMARY RACF DATA SET NAME
173	(AD)	BITSTRING	1	DSDPSTAT	PRIMARY RACF DATA SET STATUS
		1... ..		DSDPACTV	THIS DATA SET IS ACTIVE
		.1.. ..		DSDPPRIM	THIS DATA SET IS A PRIMARY
		..1.		DSDPMSTR	THIS DATA SET IS THE MASTER RACF DATA SET. ITS ICB CONTAINS STATUS OPTIONS.
		...1		DSDPRFSH	REFRESH ICB
		.... 1...		DSDPSHR	DATA SET IS (OR WAS) SHARED
		.... .1..		DSDPALTI	ALTERI REQUESTS ARE BACKED-UP
		.... ..1.		DSDPDAT	IN-STORAGE BLOCKS CAN BE DATA BLOCKS
174	(AE)	SIGNED	2	DSDPNREC	# RECORDS PER TRACK PRIMARY DATA SET
176	(B0)	UNSIGNED	1	DSDPRXNO	# IN-STORAGE BUFFERS OR RESIDENT INDEX BLOCKS
177	(B1)	CHARACTER	44	DSDPDSN	DSN OF RACF PRIMARY DATA SET
221	(DD)	UNSIGNED	1	DSDPDSNO	DATA SET SEQUENCE NUMBER
222	(DE)	SIGNED	2	DSDPCBLN	LENGTH OF PRIMARY DSDE
RACF Sysplex Data Sharing fields:					
224	(E0)	CHARACTER	76	DSDPSDS	
224	(E0)	CHARACTER	16	DSDPSNAM	XES Structure Name for this database
240	(F0)	CHARACTER	16	DSDPCTOK	XES Connect token
256	(100)	CHARACTER	16	DSDPCNAM	XES Connection Name
256	(100)	CHARACTER	4	DSDPCNP	XES Connection Name Prefix
260	(104)	CHARACTER	3	DSDPCNDS	XES Connection Name Dataset
263	(107)	CHARACTER	1	DSDPCNSL	XES Connection Name Slash
264	(108)	CHARACTER	8	DSDPCNSN	XES Connection Name suffix (System Name)
272	(110)	CHARACTER	12	DSDPVTOK	XES Vector token
284	(11C)	SIGNED	4	DSDPVLEN	XES Vector token length
288	(120)	UNSIGNED	1	DSDPCONS	XES Connect Status, CONSTAT (See CONSTAT Constants below for valid values)
289	(121)	BITSTRING	1	DSDPRBLD	XES Rebuild Status Flags
		1... ..		DSDPRBIP	Rebuild In Progress
		.111 1111		*	Reserved
290	(122)	BITSTRING	1	DSDPCACF	Caching Flags.
		1... ..		DSDPDSCM	IXLCACHE message issued
		.1.. ..		DSDPDSVM	IXLVECTR message issued
		..11 1111		*	Reserved
291	(123)	CHARACTER	1	*	Boundary Alignment
292	(124)	CHARACTER	8	*	Reserved 2 words
300	(12C)	CHARACTER	8	DSDPDDNM	Dynamic allocation DDNAME
308	(134)	CHARACTER	12	*	Reserved 3 words

DSDT

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
Entry for Backup Data Set:					
320	(140)	CHARACTER	176	DSDTBACK	ENTRY FOR BACKUP DATA SET
320	(140)	ADDRESS	4	DSDBDCB	PTR DCB OF BACK-UP DATA SET
324	(144)	ADDRESS	4	DSDBDEB	PTR DEB OF BACK-UP DATA SET
328	(148)	ADDRESS	4	DSDBINDX	PTR TO IN-STORAGE BUFFERS OR RESIDENT INDEX TABLE. ZERO IF NO RESIDENT BLOCKS FOR THE BACK-UP RACF DATA SET
332	(14C)	ADDRESS	4	DSDBHDR	PTR RACF IN-STORAGE DS HEADER RECORD OR ZERO IF BACK-UP RACF DATA SET IS ON A SHARED DEVICE
336	(150)	ADDRESS	4	DSDBRUCB	PTR UCB OF BACK-UP DATA SET
340	(154)	SIGNED	4	DSDBXLEN	LENGTH OF IN-STORAGE BUFFERS OR RESIDENT INDEX TABLE FOR THE BACK-UP RACF DATA SET
344	(158)	ADDRESS	4	DSDBBAM	LOCATES IN-STORAGE BAM INFORMATION FOR BACK-UP DATA SET
348	(15C)	ADDRESS	1	DSDBDSNL	LENGTH OF BACK-UP DATA SET NAME
349	(15D)	BITSTRING	1	DSDBSTAT	STATUS OF BACK-UP DATA SET
		1... ..		DSDBACTV	THIS DATA SET IS ACTIVE
		.1.. ..		DSDBPRIM	THIS DATA SET IS A PRIMARY
		..1.		DSDBMSTR	THIS DATA SET IS THE MASTER RACF DATA SET. ITS ICB CONTAINS STATUS OPTIONS.
		...1		DSDBRFSH	REFRESH ICB
		.... 1...		DSDBSHR	DATA SET IS (OR WAS) SHARED
		.... .1..		DSDBALTI	ALTERI REQUESTS ARE BACKED-UP
		.... ..1.		DSDBDAT	IN-STORAGE BLOCKS CAN BE DATA BLOCKS
350	(15E)	SIGNED	2	DSDBNREC	# RECORDS PER TRACK BACK-UP DATA SET
352	(160)	UNSIGNED	1	DSDBRXNO	# IN STORAGE BUFFERS OR RESIDENT INDEX BLOCKS
353	(161)	CHARACTER	44	DSDBDSN	DSN OF BACK-UP RACF DATA SET
397	(18D)	UNSIGNED	1	DSDBDSNO	DATA SET SEQUENCE NUMBER
398	(18E)	SIGNED	2	DSDBCBLN	LENGTH OF BACKUP DSDE
RACF Sysplex Data Sharing fields:					
400	(190)	CHARACTER	76	DSDBSDS	
400	(190)	CHARACTER	16	DSDBSNAM	XES Structure Name for this database
416	(1A0)	CHARACTER	16	DSDBCTOK	XES Connect token
432	(1B0)	CHARACTER	16	DSDBCNAM	XES Connection Name
432	(1B0)	CHARACTER	4	DSDBCNP	XES Connection Name Prefix
436	(1B4)	CHARACTER	3	DSBCNDS	XES Connection Name Dataset
439	(1B7)	CHARACTER	1	DSBCNSL	XES Connection Name Slash
440	(1B8)	CHARACTER	8	DSBCNSN	XES Connection Name suffix (System Name)
448	(1C0)	CHARACTER	12	DSDBVTOK	XES Vector token
460	(1CC)	SIGNED	4	DSDBVLEN	XES Vector token length
464	(1D0)	UNSIGNED	1	DSDBCONS	XES Connect Status, CONSTAT (See CONSTAT Constants below for valid values)
465	(1D1)	BITSTRING	1	DSDBRBLD	XES Rebuild Status Flags
		1... ..		DSDBRBIP	Rebuild In Progress
		.111 1111		*	Reserved
466	(1D2)	BITSTRING	1	DSDBCACF	Caching Flags.
		1... ..		DSDBDSCM	IXLCACHE message issued
		.1.. ..		DSDBDSVM	IXLVECTR message issued
		..11 1111		*	Reserved
467	(1D3)	CHARACTER	1	*	Boundary Alignment
468	(1D4)	CHARACTER	8	*	Reserved 2 words
476	(1DC)	CHARACTER	8	DSDBDDNM	Dynamic allocation DDNAME
484	(1E4)	CHARACTER	12	*	Reserved 3 words
Based mapping of a single data set:					

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	176	DSDE	ENTRY FOR DATA SET
0	(0)	ADDRESS	4	DSDEDCB	PTR DCB FOR DATA SET
4	(4)	ADDRESS	4	DSDEDEB	PTR DEB FOR DATA SET
8	(8)	ADDRESS	4	DSDEINDX	PTR TO IN-STORAGE BUFFERS OR RESIDENT INDEX TABLE. ZERO IF NO RESIDENT BLOCKS FOR THE DATA SET
12	(C)	ADDRESS	4	DSDEHDR	PTR RACF IN-STORAGE DS HEADER RECORD OR ZERO IF DATA SET IS ON A SHARED DEVICE
16	(10)	ADDRESS	4	DSDERUCB	PTR UCB FOR DATA SET
20	(14)	SIGNED	4	DSDEXLEN	LENGTH OF IN-STORAGE INDEX RELATED CONTROL BLOCKS FOR DATA SET
24	(18)	ADDRESS	4	DSDEBAM	LOCATES IN-STORAGE BAM INFORMATION FOR DATA SET
28	(1C)	ADDRESS	1	DSDEDSNL	LENGTH OF DATA SET NAME
29	(1D)	BITSTRING	1	DSDESTAT	DATA SET STATUS
		1... ..		DSDEACTV	THIS DATA SET IS ACTIVE
		.1.. ..		DSDEPRIM	THIS DATA SET IS A PRIMARY
		..1.		DSDEMSTR	THIS DATA SET IS THE MASTER RACF DATA SET. ITS ICB CONTAINS STATUS OPTIONS.
		...1		DSDERFSH	REFRESH ICB
		.... 1...		DSDESHR	DATA SET IS (OR WAS) SHARED
		.... .1..		DSDEALTI	ALTERI REQUESTS ARE BACKED-UP
		.... ..1.		DSDEDAT	IN-STORAGE BLOCKS CAN BE DATA BLOCKS
		.... ...1		DSDECMS	DATA SET IS VM CMS FILE
30	(1E)	SIGNED	2	DSDENREC	# RECORDS/TRACK ON DATA SET
32	(20)	UNSIGNED	1	DSDERXNO	# IN-STORAGE BUFFERS OR RESIDENT INDEX BLOCKS
33	(21)	CHARACTER	44	DSDEDSN	NAME OF DATA SET
77	(4D)	UNSIGNED	1	DSDEDSNO	DATA SET SEQUENCE NUMBER
78	(4E)	SIGNED	2	DSDECSBLN	LENGTH OF DSDE

RACF Sysplex Data Sharing fields:

80	(50)	CHARACTER	96	DSDESDDS	
80	(50)	CHARACTER	16	DSDESNAM	XES Structure Name for this database
96	(60)	CHARACTER	16	DSDECTOK	XES Connect token
112	(70)	CHARACTER	16	DSDECNAM	XES Connection Name
112	(70)	CHARACTER	4	DSDECNP	XES Connection Name Prefix
116	(74)	CHARACTER	3	DSDECNDS	XES Connection Name Dataset
119	(77)	CHARACTER	1	DSDECNSL	XES Connection Name Slash
120	(78)	CHARACTER	8	DSDECNSN	XES Connection Name suffix (System Name)
128	(80)	CHARACTER	12	DSDEVTK	XES Vector token
140	(8C)	SIGNED	4	DSDEVLEN	XES Vector token length
144	(90)	UNSIGNED	1	DSDECONS	XES Connect Status, CONSTAT (See CONSTAT Constants below for valid values)
145	(91)	BITSTRING	1	DSDERBLD	XES Rebuild Status Flags
		1... ..		DSDERBIP	Rebuild In Progress
		.111 1111		*	Reserved
146	(92)	BITSTRING	1	DSDECACF	Caching Flags.
		1... ..		DSDEDSM	IXLCACHE message issued
		.1.. ..		DSDEDSVM	IXLVCTR message issued
		..11 1111		*	Reserved
147	(93)	CHARACTER	1	*	Boundary Alignment
148	(94)	CHARACTER	8	*	Reserved 2 words
156	(9C)	CHARACTER	8	DSDEDDNM	Dynamic allocation DDNAME
164	(A4)	CHARACTER	12	*	Reserved 3 words

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
DSDE	0		1	DSDPPRIM	AD	40	5
DSDEACTV	1D	80	3	DSDPRBIP	121	80	6
DSDEALTI	1D	04	3	DSDPRBLD	121		5
DSDEBAM	18		2	DSDPRFSH	AD	10	5
DSDECACF	92		3	DSDPRUCB	A0		4
DSDECBLN	4E		2	DSDPRXNO	B0		4
DSDECMS	1D	01	3	DSDPSDS	E0		4
DSDECNAM	70		3	DSDPSHR	AD	08	5
DSDECNDS	74		4	DSDPSNAM	E0		5
DSDECNP	70		4	DSDPSTAT	AD		4
DSDECNSL	77		4	DSDPVLEN	11C		5
DSDECNSN	78		4	DSDPVTOK	110		5
DSDECONS	90		3	DSDPXLEN	A4		4
DSDECTOK	60		3	DSDT	0		1
DSDEDAT	1D	02	3	DSDTBACK	140		3
DSDEDCB	0		2	DSDTBFMT	D	40	3
DSDEDDNM	9C		3	DSDTBLNM	50		2
DSDEDEB	4		2	DSDTBLTK	80		2
DSDEDSM	92	80	4	DSDTBXST	D	10	3
DSDEDSN	21		2	DSDTDSDX	8		2
DSDEDSNL	1C		2	DSDTDSFL	88		2
DSDEDSNO	4D		2	DSDTDSMO	89		2
DSDEDSVM	92	40	4	DSDTDSRQ	88	80	3
DSDEHDR	C		2	DSDTENTY	90		2
DSDEINDX	8		2	DSDTFLAG	D		2
DSDEMSTR	1D	20	3	DSDTID	0		2
DSDENREC	1E		2	DSDTNUM	4		2
DSDEPRIM	1D	40	3	DSDTPFMT	D	80	3
DSDERBIP	91	80	4	DSDTPLNM	18		2
DSDERBLD	91		3	DSDTPLTK	48		2
DSDERFSH	1D	10	3	DSDTPRIM	90		3
DSDERUCB	10		2	DSDTPXST	D	20	3
DSDERXNO	20		2	DSDTVRSN	C		2
DSDESDS	50		2				
DSDESHR	1D	08	3				
DSDESNAM	50		3				
DSDESTAT	1D		2				
DSDEVLEN	8C		3				
DSDEVTOK	80		3				
DSDEXLEN	14		2				
DSDPACTV	AD	80	5				
DSDPALTI	AD	04	5				
DSDPBAM	A8		4				
DSDPCACF	122		5				
DSDPCBLN	DE		4				
DSDPCNAM	100		5				
DSDPCNDS	104		6				
DSDPCNP	100		6				
DSDPCNSL	107		6				
DSDPCNSN	108		6				
DSDPCONS	120		5				
DSDPCTOK	F0		5				
DSDPDAT	AD	02	5				
DSDPDCB	90		4				
DSDPDDNM	12C		4				
DSDPDEB	94		4				
DSDPDSCM	122	80	6				
DSDPDSN	B1		4				
DSDPDSNL	AC		4				
DSDPDSNO	DD		4				
DSDPDSVM	122	40	6				
DSDPHDR	9C		4				
DSDPINDX	98		4				
DSDPMSTR	AD	20	5				
DSDPNREC	AE		4				

_____ End of NOT Programming Interface Information _____

EVXP: RACF Command Exit Parameter List

Common Name: RACF Command Exit Parameter List Mapping
Macro ID: IRREVXP
DSECT Name: EVXPL
Owning Component: Resource Access Control Facility (XXH00)
Eye-Catcher ID: None
Storage Attributes: Subpool 3
 Key Caller's
Size: 44 bytes
Created by: RACF Command Processor Envelope
Pointed to by: R1 at entry to IRREVX01
Serialization: None
Function: Contains the parameter list passed to the IRREVX01 exit point for commands

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE		EVXPL	

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	ADDRESS	4	EVXLEN	Length address: points to a fullword containing the number of fullwords in this parameter list.
4	(4)	ADDRESS	4	EVXCALLR	Caller address: points to a 1-byte field containing a function code identifying the command issued:
		.... ..1		EVXADDGR	X'01' ADDGROUP
		.... ..1.		EVXADDSD	X'02' ADDSD
		.... ..11		EVXADDUS	X'03' ADDUSER
		.... .1..		EVXALTDSD	X'04' ALTDSD
		.... .1.1		EVXALTGR	X'05' ALTGROUP
		.... .11.		EVXALTUS	X'06' ALTUSER
		.... .111		EVXCONNE	X'07' CONNECT
		.... 1...		EVXDELDS	X'08' DELDSD
		.... 1..1		EVXDELGR	X'09' DELGROUP
		.... 1.1.		EVXDELUS	X'0A' DELUSER
		.... 1.11		EVXLISTD	X'0B' LISTDSD
		.... 11..		EVXLISTG	X'0C' LISTGRP
		.... 11.1		EVXLISTU	X'0D' LISTUSER
		.... 111.		EVXPASSW	X'0E' PASSWORD
		.... 1111		EVXPERMI	X'0F' PERMIT
		...1		EVXRALTE	X'10' RALTER
		...1 ...1		EVXRDEFI	X'11' RDEFINE
		...1 ..1.		EVXRDELE	X'12' RDELETE
		...1 ..11		EVXREMOV	X'13' REMOVE
		...1 .1..		EVXRLIST	X'14' RLIST
		...1 .1.1		EVXSEARC	X'15' SEARCH
		...1 .11.		EVXSETRO	X'16' SETROPTS
8	(8)	ADDRESS	4	EVXFLAGS	Flag byte address: points to 2 bytes of flags that cannot be changed by the exit (2nd byte all reserved flag space) Constants for 1st byte:
		1...		EVXPRE	X'80' Pre-processing call
		.1..		EVXPOST	X'40' Post-processing call
		..1.		EVXOPER	X'20' Command issued as operator command

EVXP

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		...1		EVXPARM	X'10' Command issued from RACF parmlib second byte flag constants
		.... 1...		EVXAT	X'08' Command directed with AT or ONLYAT
		.... .1..		EVXACD	X'04' Command directed with automatic direction
		.... ..1.		EVXRASP	X'02' Command execution in RACF subsystem
		.... ...1		EVXABND	X'01' Command abended during execution (only set for post-processing call)
12	(C)	ADDRESS	4	EVXCMBUF	Command buffer address: points to a 2 byte length of command buffer, 2 byte offset to the first keyword, followed by the command image. Mapped by CMDBUF below.
16	(10)	ADDRESS	4	EVXACEE	ACEE address: points to the ACEE of the execution user ID. EVXACEE is 0 if the command was issued from the RACF parameter library.
20	(14)	ADDRESS	4	EVXWORK	Communication word address: points to a word that can be used by the exit to communicate between the pre- and post-processing calls to the exit.
24	(18)	ADDRESS	4	EVXCMDRC	Command return code address: points to a word containing the return code from command execution. Always 0 for the pre-processing call.
28	(1C)	ADDRESS	4	EVXABCD	Abend code address: points to a word containing the abend code when the flags indicate that the command abended.
32	(20)	ADDRESS	4	EVXSRCND	Command source node address: points to an 8 byte node name field. If this is the execution of a directed command, this is the originating node. The node name is left justified and padded with blanks. The field is all blanks if this is not the execution of a directed command.
36	(24)	ADDRESS	4	EVXSRCUS	Command user ID address: points to an 8 byte user ID field. If this is the execution of a directed command, this is the originating user ID. The user ID is left justified and padded with blanks. The field is all blanks if this is not the execution of a directed command.
40	(28)	ADDRESS	4	EVXMSSG	Message text address: points to a 200 byte area initialized to blanks. Can be used to supply message insert for IRRV0221 when the pre-processing call sets register 15 to a value other than 0 or 4.

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE		CMDBUF	
0	(0)	ADDRESS	2	CMDBUFL	Length of command buffer
2	(2)	ADDRESS	2	CMDBUFO	Offset in command buffer to the first blank past the command name
		.... ..1.		CMDBUFD	*** variable length character data

Cross Reference

Name	Hex Offset	Hex Value	Level
CMDBUFD	0	0	2
CMDBUFL	0	0	2
CMDBUFO	0	0	2
EVXABCD	1C	4	2
EVXABND	8		2
EVXACD	8		2
EVXACEE	10	4	2
EVXADDGR	4		2
EVXADDSD	4		2
EVXADDUS	4		2
EVXALTD	4		2
EVXALTGR	4		2
EVXALTUS	4		2
EVXAT	8		2
EVXCALLER	4	4	2
EVXCMBUF	C	0	2
EVXCMDRC	18	4	2
EVXCONNE	4		2
EVXDELDS	4		2
EVXDELGR	4		2
EVXDELUS	4		2
EVXFLAGS	8		2
EVXLEN	0		2
EVXLISTD	4		2
EVXLISTG	4		2
EVXLISTU	4		2
EVXMSSG	28	4	2
EVXOPER	8		2
EVXPARM	8		2
EVXPASSW	4		2
EVXPERMI	4		2
EVXPOST	8		2
EVXPRE	8		2
EVXRALTE	4		2
EVXRASP	8		2
EVXRDEFI	4		2
EVXRDELE	4		2
EVXREMOV	4		2
EVXRLIST	4		2
EVXSEARC	4		2
EVXSETRO	4		2
EVXSRCND	20	4	2
EVXSRCUS	24	4	2
EVXWORK	14	4	2

FAST: RACROUTE REQUEST=FASTAUTH Parameter List (Request Section)

Common Name: Request-specific portion of the RACROUTE REQUEST=FASTAUTH parameter list

Macro ID: None

DSECT Name: None

Owning Component: Resource Access Control Facility (SC1BN)

Eye-Catcher ID: None

Storage Attributes: Subpool Determined by caller
Key Determined by caller
Residency Determined by caller

Size: Variable

Created by: RACROUTE REQUEST=FASTAUTH macro

Pointed to by: Address of SAFR plus offset in SAFPRACP

Serialization: None

Function: Maps the request-specific portion of the parameter list passed to the RACROUTE REQUEST=FASTAUTH routine

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	28	FASTPARM	FASTAUTH parameters
0	(0)	BITSTRING	1	FASTATTR	ATTR= Flags
		1...		FASTALTR	1 = ALTER requested
		.111		*	Reserved
		.... 1...		FASTCNTL	1 = CONTROL requested
		.... .1..		FASTUPDT	1 = UPDATE requested
		.... ..1.		FASTREAD	1 = READ requested
1	(1)	BITSTRING	1	FASTLOGO	LOG= Flags
		1...		FASTASIS	LOG=ASIS
		.1..		FASTNFAL	LOG=NOFAIL
		..1.		FASTENTX	ENTITYX specified. If on, FASTENTP points to a name in ENTITYX format.
		...1 1111		*	Reserved
2	(2)	FIXED	1	FASTPLEN	Parameter List Length: 28 - OS/390 Security Server R3 or earlier 36 - OS/390 Security Server R4 40 - OS/390 Security Server R6
3	(3)	HEX	1	FASTPVER	Parameter List Version: 0 - OS/390 Security Server R3 or earlier 1 - OS/390 Security Server R4 2 - OS/390 Security Server R6
4	(4)	ADDRESS	4	FASTENTP	For ENTITY (FASTENTX=off), points to a field as the maximum length name of the given class, as determined by the class descriptor table. Names in the field are left-justified and padded with blanks if necessary. For ENTITYX (FASTENTX=on), points to a halfword buffer length followed by a halfword actual length of the resource name not including trailing blanks. If the actual length is zero, then RACF determines the number of characters in the entity name.
8	(8)	ADDRESS	4	FASTCLAS	Address of class name
12	(C)	ADDRESS	4	FASTACEE	Address of ACEE to use
16	(10)	ADDRESS	4	FASTAPPL	Address of application name
20	(14)	ADDRESS	4	FASTWKA	Address of 16 word workarea
24	(18)	ADDRESS	4	FASTINST	Address of installation exit data field

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
28	(1C)	ADDRESS	4	FASTALET	ACEEALET address: If nonzero, it points to a fullword ALET value to be used when referencing an ACEE in another address space. This address is always zero for ICHRF01 and ICHRF02. FASTALET exists only when FASTPVER is 1 or higher.
32	(20)	ADDRESS	4	FASTLOGS	LOGSTR address: If nonzero, it points to a 1-byte length field followed by character data that can be from 0 to 255 bytes long. FASTLOGS exists only when FASTPVER is 1 or higher.
36	(24)	ADDRESS	4	FASTENVR	Address of the ENVR data structure. FASTENVR exists only when FASTPVER is 2 or higher.

Cross Reference

Name	Hex Offset	Hex Value	Level
FASTACEE	C		2
FASTALET	1C		2
FASTALTR	0	80	3
FASTAPPL	10		2
FASTASIS	1	80	3
FASTATTR	0		2
FASTCLAS	8		2
FASTCNTL	0	08	3
FASTENTP	4		2
FASTENTX	1	20	3
FASTENVR	24		2
FASTINST	18		2
FASTLOGO	1		2
FASTLOGS	20		2
FASTNFAL	1	40	3
FASTNONE	0	01	3
FASTPARM	0		1
FASTPLEN	2		2
FASTPVER	3		2
FASTREAD	0	02	3
FASTUPDT	0	04	2
FASTWKA	14		2

FC: OS/390 UNIX System Services Security Function Code Table

Common Name:	OS/390 UNIX System Services security function code table
Macro ID:	IRRPFC
DSECT Name:	N/A
Owning Component:	Resource Access Control Facility (SC1BN)
Eye-Catcher ID:	N/A
Storage Attributes:	N/A
Size:	Determined by release (see the mapping)
Created by:	N/A
Pointed to by:	N/A
Serialization:	N/A
Function:	Maps the OS/390 UNIX security function codes

Constants

Len	Type	Value	Name	Description
1	DECIMAL	1	IRRSIU00#	Function code 1 - initUSP
1	DECIMAL	2	IRRSU00#	Function code 2 - deleteUSP
1	DECIMAL	3	IRRSMF00#	Function code 3 - makeFSP
1	DECIMAL	4		Reserved
1	DECIMAL	5	IRRSMM00#	Function code 5 - set file mode creation mask
1	DECIMAL	6	IRRSKA00#	Function code 6 - check access
1	DECIMAL	7	IRRSKP00#	Function code 7 - check privilege
1	DECIMAL	8	IRRSUM00#	Function code 8 - getUMAP
1	DECIMAL	9	IRRSGM00#	Function code 9 - getGMAP
1	DECIMAL	10	IRRSYG00#	Function code 10 - get supplemental groups
1	DECIMAL	11	IRRSSU00#	Function code 11 - set UID
1	DECIMAL	12	IRRSEU00#	Function code 12 - set effective UID
1	DECIMAL	13	IRRSSG00#	Function code 13 - set GID
1	DECIMAL	14	IRRSYG00#	Function code 14 - set effective GID
1	DECIMAL	15	IRRSO00#	Function code 15 - change owner group
1	DECIMAL	16	IRRSYF00#	Function code 16 - change file mode
1	DECIMAL	17	IRRSYA00#	Function code 17 - change file audit options
1	DECIMAL	18	IRRSYX00#	Function code 18 - exec_setUID/GID
1	DECIMAL	19	IRRSYU00#	Function code 19 - audit
1	DECIMAL	20	IRRSYO00#	Function code 20 - check process owner
1	DECIMAL	21	IRRSYQ00#	Function code 21 - query security options
1	DECIMAL	22	IRRSYF00#	Function code 22 - query file options
1	DECIMAL	23	IRRSYS00#	Function code 23 - clear_setid
1	DECIMAL	24	IRRSYK00#	Function code 24 - check file owner
1	DECIMAL	25	IRRSYR00#	Function code 25 - make_root_FSP
1	DECIMAL	26	IRRSYPT00#	Function code 26 - PTRACE authority check
1	DECIMAL	27	IRRSYG00#	Function code 27 - get users groups
1	DECIMAL	28	IRRSYFK00#	Function code 28 - fork exit
1	DECIMAL	29	IRRSYMI00#	Function code 29 - makeISP
1	DECIMAL	30	IRRSYKI00#	Function code 30 - check IPC access
1	DECIMAL	31	IRRSYCI00#	Function code 31 - R_IPC_ctl
1	DECIMAL	32	IRRSYC200#	Function code 32 - ck_owner_two_files
1	DECIMAL	33	IRRSYGE00#	Function code 33 - get UIDs, GIDs, and supplemental groups
1	DECIMAL	34	IRRSYDI00#	Function code 34 - R_dceinfo
1	DECIMAL	35	IRRSYDK00#	Function code 35 - R_dcekey
1	DECIMAL	36	IRRSYUD00#	Function code 36 - R_dceruid
1	DECIMAL	37	IRRSYDA00#	Function code 37 - R_dceauth
1	DECIMAL	38	IRRSYIA00#	Function code 38 - initACEE
1	DECIMAL	39	IRRSYEQ00#	Function code 39 - R_admin

FXAP: RACROUTE REQUEST=FASTAUTH Extended Function Exit Parameter List

Common Name: RACROUTE REQUEST=FASTAUTH extended function exit parameter list
Macro ID: ICHRFXAP
DSECT Name: RFXAPL
Owning Component: Resource Access Control Facility (XXH00)
Eye-Catcher ID: None
Storage Attributes: Subpool 229
 Key 0
 Residency Can be above 16MB
Size: 12 bytes
Created by: RACROUTE REQUEST=FASTAUTH
Pointed to by: R1 at entry to ICHRFX03 and ICHRFX04
Serialization: None
Function: Maps the parameter list passed to the RACROUTE REQUEST=FASTAUTH pre- or post-processing installation exit ICHRFX03 or ICHRFX04

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	ADDRESS	4	ARFEXPL	Address of the current ICHRFX01 or ICHRFX02 parameter list which can be used by ICHRFX03 or ICHRFX04
4	(4)	ADDRESS	4	ARFXALET	ALET of the data space or address space containing the profile
8	(8)	ADDRESS	4	ARFXPROF	Address of the profile being used in the data space or address space

GAPL: Generic Anchor Table Entry

NOT Programming Interface Information

Common Name: Generic Anchor Table Entry

Macro ID: ICHGAPL

DSECT Name: GENATE, GENPRFL, GENPLEL

Owning Component: Resource Access Control Facility (XXH00)

Eye-Catcher ID: GAPL (Offset: 0, Length: 4)

Storage Attributes: Subpool 255 (or as specified by the issuer of RACROUTE REQUEST=VERIFY)
On MVS/ESA: subpool 225 if ACEE is in subpool 255

Key 0

Size:

Section	Size
1	40 bytes minimum
2	28 bytes
3	20 bytes plus a variable of unknown length at offset 20
4	16 bytes
5	2 bytes

Created by: ICHGLS00 (LSQA or ELSQA)

Pointed to by: Section 1: ACEEGATA in ACEE data area or ATENEXT field in GAPL data area
Section 2: After section 1 or pointed to by RTEGENL in ISP data area

Serialization: Local lock

Function: Contains descriptor and generic profile names for general resource class or data set high-level qualifier

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	*	GENATE	Anchor Table Entry (ATE)
0	(0)	CHARACTER	4	ATEID	Identifier ('ATE')
4	(4)	UNSIGNED	1	ATEVERSN	Version
5	(5)	CHARACTER	3	*	RESERVED
8	(8)	UNSIGNED	4	ATESPLN	
8	(8)	UNSIGNED	1	ATESP	SUBPOOL
9	(9)	UNSIGNED	3	ATELN	Length of ATE
12	(C)	CHARACTER	8	ATENM	Class name or HLQ, if DATASET
20	(14)	BITSTRING	1	ATEFLAG	Flags
		1... ..		ATETYP	Class TYPE: 1 - DATASET, 0 - General Resource
		.111 1111		*	RESERVED
21	(15)	CHARACTER	1	*	RESERVED
22	(16)	UNSIGNED	2	ATEKQLEN	Length of the key qualifier
24	(18)	CHARACTER	4	*	RESERVED
28	(1C)	SIGNED	4	ATERCNT	Refresh count
32	(20)	ADDRESS	4	ATEPROFL	Address of profile list
36	(24)	ADDRESS	4	ATENEXT	Address of next entry in anchor table
40	(28)	CHARACTER	*	ATEKEYQ	Key qualifier of profile list

GAPL

Offsets			Len		
Dec	Hex	Type		Name (Dim)	Description
0	(0)	STRUCTURE	28	GENPRFL	Profile list block header
0	(0)	CHARACTER	4	PRFLID	Identifier ('GPRF')
4	(4)	UNSIGNED	4	PRFLSPLN	
4	(4)	UNSIGNED	1	PRFLSP	Profile list block SUBPOOL
5	(5)	UNSIGNED	3	PRFLLN	Length of profile list block
8	(8)	ADDRESS	4	PRFLNEXT	Address of next block in profile list
12	(C)	SIGNED	2	PRFLNE	Number of entries in this block
14	(E)	UNSIGNED	2	*	RESERVED
16	(10)	SIGNED	2	PRFLNH	Length of header
18	(12)	SIGNED	2	PRFLLE	If RACLIST format (fixed-length entries), length of each entry in the profile list. If normal format (variable-length entries), zero (use PLELNL and LENGTH(GENPLEL), instead)
20	(14)	ADDRESS	4	PRFSRTP	Sorting Factor used by RACLIST
24	(18)	CHARACTER	4	PRFINDX	Address of maximal discrete prefix index structure
28	(1C)	CHARACTER		PRFENT	Start of profile list elements

Offsets			Len		
Dec	Hex	Type		Name (Dim)	Description
0	(0)	STRUCTURE	*	GENPLEL	Profile list element
0	(0)	CHARACTER	20	GENPLELH	PLE Header
0	(0)	SIGNED	2	PLELNL	Length of resource name
2	(2)	CHARACTER	1	PLELFLGS	Flags
		1... ..		PLELRTRV	1- profile has been retrieved (or attempted, since it might be missing when the attempt is done)
		.111 1111		*	RESERVED
3	(3)	CHARACTER	1	*	RESERVED
4	(4)	ADDRESS	4	PLELPRF	Address of profile, or zero if profile has not yet been retrieved (or can not be found). This field is only valid if PLELRTRV is on
8	(8)	UNSIGNED	2	PLELRVRC	Count of RACFVARS variables in resource name
10	(A)	UNSIGNED	2	PLELRVCT	Count of valid RACFVARS variables in resource name
12	(C)	ADDRESS	4	PLELRVRP	Pointer to array of RACFVARS variables in the resource name
16	(10)	UNSIGNED	4	PLELMLSZ	Total amount of space needed for the member lists of all the RACFVARS variables in the resource name
20	(14)	CHARACTER	*	PLELNM	Resource name

Offsets			Len		
Dec	Hex	Type		Name (Dim)	Description
0	(0)	STRUCTURE	16	PLELRVRS (*)	Array of RACFVARS variables in the resource name
0	(0)	CHARACTER	8	PLELRVAR	RACFVARS variable
8	(8)	UNSIGNED	2	PLELMEMC	RACFVARS member count
10	(A)	UNSIGNED	2	PLELMEML	RACFVARS member list length
12	(C)	ADDRESS	4	PLELMEMP	RACFVARS member list pointer

Offsets			Len		
Dec	Hex	Type		Name (Dim)	Description
0	(0)	STRUCTURE	*	PLELMEM	RACFVARS member list
0	(0)	UNSIGNED	1	PLELMBRL	RACFVARS member length
1	(1)	CHARACTER	*	PLELMBR	RACFVARS member

Constants

Len	Type	Value	Name	Description
1	DECIMAL	1	ATEVCON	ATE Version
4	DECIMAL	28	PRFLHLN	Length of profile list block header

Cross Reference

Name	Hex Offset	Hex Value	Level
ATEFLAG	14		2
ATEID	0		2
ATEKEYQ	28		2
ATEKQLEN	16		2
ATELN	9		3
ATENEXT	24		2
ATENM	C		2
ATEPROFL	20		2
ATERCNT	1C		2
ATESP	8		3
ATESPLN	8		2
ATETYP	14	80	3
ATEVERSN	4		2
GENATE	0		1
GENPLEL	0		1
GENPLELH	0		2
GENPRFL	0		1
PLELFLGS	2		3
PLELMBR	1		2
PLELMBRL	0		2
PLELMEM	0		1
PLELMEMC	8		2
PLELMEML	A		2
PLELMEMP	C		2
PLELMLSZ	10		3
PLELNL	0		3
PLELNM	14		2
PLELPRF	4		3
PLELRTRV	2	80	4
PLELRVAR	0		2
PLELRVCT	A		3
PLELRVRC	8		3
PLELRVRP	C		3
PLELRVRS	0		1
PRFENT	1C		2
PRFINDX	18		4
PRFLID	0		2
PRFLLE	12		2
PRFLH	10		2
PRFLN	5		3
PRFLNE	C		2
PRFLNEXT	8		2
PRFLSP	4		3
PRFLSPLN	4		2
PRFSRTPL	14		2

End of NOT Programming Interface Information

GRPF: In-Storage Generic Profile Map

NOT Programming Interface Information

Common Name: In-storage generic profile map

Macro ID: ICHGRPF

DSECT Name: GRPF

Owning Component: Resource Access Control Facility (XXH00)

Eye-Catcher ID: None

Storage Attributes: Subpool 255 (LSQA or ELSQA)
On MVS/ESA: subpool 225 if ACEE is in subpool 255
Key 0

Size:

Section	Size
1	64 bytes
2	2 bytes plus an unknown number of 9-byte fields at offset 2
3	2 bytes plus a variable of unknown length at offset 2
4	2 bytes plus an unknown number of 2-byte fields at offset 2
5	35 bytes plus a variable of unknown length at offset 35

Created by: ICHGLS00

Pointed to by: PLELPRF field in the GAPL data area

Serialization: Local lock

Function: Describes the structure of an in-storage generic profile

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	64	GRPF	GENERIC PROFILE MAP
0	(0)	UNSIGNED	4	GRPFSPLN	
0	(0)	UNSIGNED	1	GRPFS	AREA SUBPOOL NUMBER
1	(1)	UNSIGNED	3	GRPFL	TOTAL AREA LENGTH
4	(4)	CHARACTER	60	GRPFST	PROFILE DATA
4	(4)	CHARACTER	8	GRPFOWNR	RESOURCE OWNER
12	(C)	BITSTRING	1	GRPFUACC	UNIVERSAL ACCESS
13	(D)	BITSTRING	1	GRPFAUDT	AUDIT FLAGS
14	(E)	BITSTRING	1	GRPFGAUD	GLOBAL AUDIT FLAGS
15	(F)	ADDRESS	1	GRPFLEVEL	RESOURCE LEVEL
16	(10)	SIGNED	4	GRPFACOF	OFFSET TO ACCESS
20	(14)	SIGNED	4	GRPFINOF	OFFSET TO INSTALLATION DATA
24	(18)	UNSIGNED	1	GRPFGPIN	GROUP/USER DATASET INDICATOR
25	(19)	BITSTRING	1	GRPFWARN	WARNING VALUE
26	(1A)	UNSIGNED	2	GRPFRTPD	RETENTION PERIOD
28	(1C)	BITSTRING	1	GRPFEOS	ERASE FLAG
29	(1D)	UNSIGNED	1	GRPFSLVL	RESOURCE SECLEVEL
30	(1E)	BITSTRING	1	GRPFLDAY	DAYS OF THE WEEK TERMINAL MAY NOT BE USED
31	(1F)	CHARACTER	8	GRPFNTFY	USERID TO NOTIFY WHEN THIS PROFILE DENIES ACCESS
39	(27)	CHARACTER	3	GRPFLGNT	EARLIEST TIME A TERMINAL MAY BE USED
42	(2A)	CHARACTER	3	GRPFLGFT	LATEST TIME A TERMINAL MAY BE USED
45	(2D)	CHARACTER	3	GRPFTZNE	TIME ZONE OFFSET OF TERMINAL FROM CPU

Offsets			Len		
Dec	Hex	Type		Name (Dim)	Description
48	(30)	SIGNED	4	GRPFDPOF	OFFSET TO RESOURCE CATEGORY LIST
52	(34)	SIGNED	4	GRPFA2OF	OFFSET TO CONDITIONAL ACCESS LIST
56	(38)	CHARACTER	8	GRPFSLBL	SECLABEL

Offsets			Len		
Dec	Hex	Type		Name (Dim)	Description
0	(0)	STRUCTURE	*	GRPFACL	ACCESS LIST
0	(0)	UNSIGNED	2	GRPFACCT	NUMBER OF ENTRIES
2	(2)	CHARACTER	9	GRPFACLE (*)	ACCESS LIST ENTRIES
2	(2)	CHARACTER	8	GRPFACLU	USERID/GRPNAME
10	(A)	BITSTRING	1	GRPFACLA	ACCESS AUTHORITY

Offsets			Len		
Dec	Hex	Type		Name (Dim)	Description
0	(0)	STRUCTURE	*	GRPFINS	INSTALLATION DATA
0	(0)	SIGNED	2	GRPFINSL	LENGTH OF INSTALLATION
2	(2)	CHARACTER	*	GRPFINST	INSTALLATION DATA

Offsets			Len		
Dec	Hex	Type		Name (Dim)	Description
0	(0)	STRUCTURE	*	GRPFDPT	CATEGORY LIST
0	(0)	SIGNED	2	GRPFDPTL	NUMBER OF ENTRIES IN CATEGORY LIST
2	(2)	SIGNED	2	GRPFDEPT (*)	CATEGORY LIST

Offsets			Len		
Dec	Hex	Type		Name (Dim)	Description
0	(0)	STRUCTURE	*	GRPFACL2	Second Access List
0	(0)	SIGNED	2	GRPFA2CT	NUMBER OF ENTRIES
2	(2)	UNSIGNED	2	GRPFA2LN	ACCESS LIST LENGTH
4	(4)	CHARACTER	20	GRPFAC2L	Entry structure
4	(4)	CHARACTER	8	GRPFAC2E	Program Name / Flags
4	(4)	CHARACTER	1	GRPPGFLG	Flag byte
5	(5)	CHARACTER	7	GRPA2RST	The rest of name or flags
12	(C)	CHARACTER	8	GRPFAC2U	User / Group Id
20	(14)	BITSTRING	1	GRPFAC2A	Access Authority
21	(15)	UNSIGNED	2	GRPFGACS	Access Count
23	(17)	UNSIGNED	1	GRPFACVL	Variable Entity Length
24	(18)	CHARACTER	*	GRPFACVE	Variable Entity
24	(18)	CHARACTER	8	GRPAC2ID	Class ID
32	(20)	CHARACTER	2	GRPFRSVD	Reserved
34	(22)	UNSIGNED	1	GRPAC2LV	Variable Length
35	(23)	CHARACTER	*	GRPFAC2V	Variable Entity

GRPF

Constants

Len	Type	Value	Name	Description
1	DECIMAL	0	GRPA2DAT	Flag data equate

Cross Reference

Name	Hex Offset	Hex Value	Level
GRPAC2ID	18		3
GRPAC2LV	22		3
GRPA2RST	5		4
GRPF	0		1
GRPFACCT	0		2
GRPFACL	0		1
GRPFACLA	A		3
GRPFACLE	2		2
GRPFACLU	2		3
GRPFACL2	0		1
GRPFACOF	10		3
GRPFACVE	18		2
GRPFACVL	17		3
GRPFAC2A	14		3
GRPFAC2E	4		3
GRPFAC2L	4		2
GRPFAC2U	C		3
GRPFAC2V	23		3
GRPFAUDT	D		3
GRPFA2CT	0		2
GRPFA2LN	2		2
GRPFA2OF	34		3
GRPFDEPT	2		2
GRPFDPOF	30		3
GRPFDPT	0		1
GRPFDPTL	0		2
GRPFEOS	1C		3
GRPFGACS	15		3
GRPFGAUD	E		3
GRPFGPIN	18		3
GRPFINOF	14		3
GRPFINS	0		1
GRPFINSL	0		2
GRPFINST	2		2
GRPF	1		3
GRPFDAY	1E		3
GRPFLEVL	F		3
GRPFLGFT	2A		3
GRPFLGNT	27		3
GRPFNTFY	1F		3
GRPFOWNR	4		3
GRPFRSVD	20		3
GRPFRTPD	1A		3
GRPFS	0		3
GRPFSLBL	38		3
GRPFSLVL	1D		3
GRPFSPLN	0		2
GRPFST	4		2
GRPFTZNE	2D		3
GRPFUACC	C		3
GRPFWARN	19		3
GRPPGFLG	4		4

End of NOT Programming Interface Information

IFSP: OS/390 UNIX System Services File Security Packet

Common Name: OS/390 UNIX System Services file security packet
Macro ID: IRRPIFSP
DSECT Name: IFSP
Owning Component: Resource Access Control Facility (SC1BN)
Eye-Catcher ID: IFSP
Storage Attributes: N/A
Size: 64 bytes
Created by: Invoker of OS/390 UNIX security functions
Pointed to by: IRRPCOMP, the common SAF/RACF parameter list for OS/390 UNIX security functions
Serialization: None
Function: Contains OS/390 UNIX-related information for an OS/390 UNIX file

Offsets			Len		
Dec	Hex	Type		Name (Dim)	Description
0	(0)	STRUCTURE	64	IFSP	
0	(0)	CHARACTER	4	IFSP_ID	LITERAL ID 'IFSP'
4	(4)	UNSIGNED	1	IFSP_VERS	Version Number for FSP
5	(5)	UNSIGNED	1	*	Reserved
6	(6)	UNSIGNED	2	IFSP_LEN	Length of the FSP
8	(8)	SIGNED	4	IFSP_OWN_UID	OWNING UserId (UID)
12	(C)	SIGNED	4	IFSP_OWN_GID	OWNING GroupId (GID)
16	(10)	BITSTRING	4	IFSP_PERMISSION	Permission Bits
16	(10)	BITSTRING	1	IFSP_OWNER_8	Owner perm byte size bits
		1111 1...		*	Reserved
		.... .111		IFSP_OWNER	Owner perm bits
		.... .1..		IFSP_OWNER_READ	Owner read perm bit
		.... ..1.		IFSP_OWNER_WRITE	Owner Write perm bit
		.... ...1		IFSP_OWNER_EXECUTE	Owner execute perm bit
17	(11)	BITSTRING	1	IFSP_GROUP_8	Group perm byte size bits
		1111 1...		*	Reserved
		.... .111		IFSP_GROUP	Group perm bits
		.... .1..		IFSP_GROUP_READ	Group read perm bit
		.... ..1.		IFSP_GROUP_WRITE	Group Write perm bit
		.... ...1		IFSP_GROUP_EXECUTE	Group execute perm bit
18	(12)	BITSTRING	1	IFSP_OTHER_8	Other perm byte size bits
		1111 1...		*	Reserved
		.... .111		IFSP_OTHER	Other perm bits
		.... .1..		IFSP_OTHER_READ	Other read perm bit
		.... ..1.		IFSP_OTHER_WRITE	Other Write perm bit
		.... ...1		IFSP_OTHER_EXECUTE	Other execute perm bit
19	(13)	BITSTRING	1	*	Reserved (ACL if done)
20	(14)	BITSTRING	4	IFSP_FLAG	File Flags
		1...		IFSP_DIRECTORY	File is Directory
20	(14)	BITSTRING	3	*	Reserved
		.... .1..		IFSP_S_ISVTX	S_ISVTX
		.... ..1.		IFSP_S_ISUID	S_ISUID - setuid file
		.... ...1		IFSP_S_ISGID	S_ISGID - setgid file
24	(18)	BITSTRING	4	IFSP_USER_AUDIT_OPTS	User Audit Options
24	(18)	BITSTRING	1	IFSP_USER_AUDIT_READ	Read Access Options
25	(19)	BITSTRING	1	IFSP_USER_AUDIT_WRITE	Write Access Options
26	(1A)	BITSTRING	1	IFSP_USER_AUDIT_EXEC_SCH	Execute/Search Access Options
27	(1B)	BITSTRING	1	*	Reserved
28	(1C)	BITSTRING	4	IFSP_ADTR_AUDIT_OPTS	Auditor Audit Options
28	(1C)	BITSTRING	1	IFSP_ADTR_AUDIT_READ	Read Access Options

IFSP

Offsets			Len		
Dec	Hex	Type		Name (Dim)	Description
29	(1D)	BITSTRING	1	IFSP_ADTR_AUDIT_WRITE	Write Access Options
30	(1E)	BITSTRING	1	IFSP_ADTR_AUDIT_EXEC_SCH	Execute/Search Access Options
31	(1F)	BITSTRING	1	*	Reserved
32	(20)	CHARACTER	8	*	Reserved
40	(28)	CHARACTER	24	*	Reserved

Constants

Len	Type	Value	Name	Description
4	CHARACTER	IFSP	IFSP_IDC	FSP ID Constant
1	DECIMAL	1	IFSP_CV01	Version 1 of FSP
1	DECIMAL	1	IFSP_CVER	Current version of FSP
1	HEX	00	IFSP_AUD_NONE	Do not Audit any access attempts
1	HEX	01	IFSP_AUD_SUCC	Audit successful access
1	HEX	02	IFSP_AUD_FAIL	Audit failed access attempts

Cross Reference

Name	Hex Offset	Hex Value	Level
IFSP	0		1
IFSP_ADTR_AUDIT_EXEC_SCH	1E		3
IFSP_ADTR_AUDIT_OPTS	1C		2
IFSP_ADTR_AUDIT_READ	1C		3
IFSP_ADTR_AUDIT_WRITE	1D		3
IFSP_DIRECTORY	14	80	3
IFSP_FLAG	14		2
IFSP_GROUP	11	04	4
IFSP_GROUP_EXECUTE	11	01	5
IFSP_GROUP_READ	11	04	5
IFSP_GROUP_WRITE	11	02	5
IFSP_GROUP_8	11		3
IFSP_ID	0		2
IFSP_LEN	6		2
IFSP_OTHER	12	04	4
IFSP_OTHER_EXECUTE	12	01	5
IFSP_OTHER_READ	12	04	5
IFSP_OTHER_WRITE	12	02	5
IFSP_OTHER_8	12		3
IFSP_OWN_GID	C		2
IFSP_OWN_UID	8		2
IFSP_OWNER	10	04	4
IFSP_OWNER_EXECUTE	10	01	5
IFSP_OWNER_READ	10	04	5
IFSP_OWNER_WRITE	10	02	5
IFSP_OWNER_8	10		3
IFSP_PERMISSION	10		2
IFSP_S_ISGID	17	01	3
IFSP_S_ISUID	17	02	3
IFSP_S_ISVTX	17	04	3
IFSP_USER_AUDIT_EXEC_SCH	1A		3
IFSP_USER_AUDIT_OPTS	18		2
IFSP_USER_AUDIT_READ	18		3
IFSP_USER_AUDIT_WRITE	19		3
IFSP_VERS	4		2

IISP: OS/390 UNIX System Services IPC Security Packet

Common Name: OS/390 UNIX System Services IPC security packet
Macro ID: IRRPIISP
DSECT Name: IISP
Owning Component: Resource Access Control Facility (SC1BN)
Eye-Catcher ID: IISP (Offset: 0, Length: 4)
Storage Attributes: Subpool 3
 Key 0 (not fetch-protected)
 Residency Private storage of module that creates it
Size: 64 bytes
Created by: Callable service: makeISP (IRRSMI00)
Pointed to by: IRRPCOMP, the common SAF/RACF parameter list for OS/390 UNIX security functions
Serialization: None
Function: Maps the structure of the IPC security packet

Offsets			Len		
Dec	Hex	Type		Name (Dim)	Description
0	(0)	STRUCTURE	64	IISP	
0	(0)	CHARACTER	4	IISP_ID	LITERAL ID 'IISP'
4	(4)	UNSIGNED	1	IISP_VERS	Version Number for ISP
5	(5)	UNSIGNED	1	*	Reserved
6	(6)	UNSIGNED	2	IISP_LEN	Length of the ISP
8	(8)	UNSIGNED	4	IISP_IPCP_ALET	ALET of IPCP
12	(C)	ADDRESS	4	IISP_IPCP_PTR	Address of IPCP mapped by BPXYIPCP
16	(10)	UNSIGNED	4	IISP_IPCKEY	IPC Key
20	(14)	UNSIGNED	4	IISP_IPCID	IPC ID
24	(18)	CHARACTER	8	*	Reserved (for SECLABEL)
32	(20)	CHARACTER	32	*	Reserved

Constants

Len	Type	Value	Name	Description
4	CHARACTER	IISP	IISP_IDC	ISP ID Constant
1	DECIMAL	1	IISP_CV01	Version 1 of ISP
1	DECIMAL	1	IISP_CVER	Current version of ISP
2	DECIMAL	64	IISP#LEN	Length

Cross Reference

Name	Hex Offset	Hex Value	Level
IISP	0		1
IISP_ID	0		2
IISP_IPCID	14		2
IISP_IPCKEY	10		2
IISP_IPCP_ALET	8		2
IISP_IPCP_PTR	C		2
IISP_LEN	6		2
IISP_VERS	4		2

ISP: RACF In-Storage Profile

 NOT Programming Interface Information

The following fields are Not Programming Interface information:

- RACRTE
- RACRSE
- RACRNE

 End of NOT Programming Interface Information

Common Name: RACF in-storage profile

Macro ID: ICHPISP

DSECT Name: RACRTE, RACRSE, RACRNE, RACRPE, RPEINST, RPEAPPL, RPEACCLE, RPEPTD, RPESESSN, RPEACL2, RPEMEM, RPESESS2

Owning Component: Resource Access Control Facility (SC1BN)

Eye-Catcher ID: None

Storage Attributes: Subpool 255 (or as specified by issuer of RACROUTE REQUEST=LIST)
Key 0
Residency May reside above 16M

Size:

Section	Size
1	44 bytes
2	8 bytes plus a variable of unknown length at offset 8
3	16 bytes plus a variable of unknown length at offset 16
4	78 bytes
5	1 bytes plus a variable of unknown length at offset 1
6	1 bytes plus a variable of unknown length at offset 1
7	9 bytes per entry in the access list
8	2 bytes per category
9	10 bytes plus 1 to 8 characters at offset 10
10	31 bytes plus a variable of unknown length at offset 31
11	Variable
12	1 byte

Created by: RACROUTE REQUEST=LIST processing

Pointed to by: ACEECLCP field of the ACEE data area. On systems prior to MVS/ESA, CNSTRCLP also points to it. Individual profiles can be located in 2 ways:

1. Using RACROUTE REQUEST=AUTH with ENTITY=(...,CSA or PRIVATE), which will return a copy of the profile mapped by ICHRRPF.
2. For a RACROUTE REQUEST=LIST tree pointed to from the ACEE, using RACROUTE REQUEST=FASTAUTH which will return a pointer to a profile that was used in word 14 of the work area pointed to by WKAREA.

Serialization: None

Function: Contains profiles for general resources in a class plus control information for locating individual profiles

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	44	RACRTE	RACLIST CLASS TREE ANCHOR ELEMENT
0	(0)	ADDRESS	4	RTENEXT	ADDRESS OF NEXT ANCHOR OR 0
4	(4)	ADDRESS	4	RTECLASS	ADDRESS OF CLASS DESCRIPTOR ENTRY FOR THIS CLASS
8	(8)	ADDRESS	4	RTETREE	ADDRESS OF TOP NODE IN TREE OR 0
12	(C)	ADDRESS	4	RTESTORE	ADDRESS OF STORAGE BLOCK LIST OR 0
16	(10)	CHARACTER	2	RTESPNS	PROFILE & NODE SUBPOOL NUMBERS
16	(10)	UNSIGNED	1	RTEPSPN	SUBPOOL NUMBER FOR PROFILES
17	(11)	UNSIGNED	1	RTENSPN	SUBPOOL NUMBER FOR TREE NODES
18	(12)	UNSIGNED	1	RTEASPN	SUBPOOL NUMBER OF THIS BLOCK
19	(13)	CHARACTER	1	*	RESERVED
20	(14)	ADDRESS	4	RTEGENL	ADDRESS OF GENERIC PROFILE LIST OR 0
24	(18)	SIGNED	4	RTE SIZE	TOTAL STORAGE USED FOR RACLISTED PROFILES AND NODES
28	(1C)	SIGNED	4	RTEGNUM	TOTAL NUMBER OF GROUPING PROFILES THAT CONTAIN MEMBERS
32	(20)	CHARACTER	8	RTESTOKN	STOKEN FOR GLOBAL=YES DATASPACE
40	(28)	UNSIGNED	4	RTEALET	PASN-AL ALET FOR DATASPACE

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	*	RACRSE	RACLIST CLASS TREE STORAGE BLOCK
0	(0)	ADDRESS	4	RSENEXT	ADDRESS OF NEXT STORAGE BLOCK OR 0
4	(4)	SIGNED	2	RSESIZE	LENGTH OF STORAGE BLOCK
6	(6)	UNSIGNED	1	RSEPOOL	SUBPOOL NUMBER OF STORAGE BLOCK
7	(7)	UNSIGNED	1	*	RESERVED
8	(8)	CHARACTER	*	RSESTORE	USEABLE STORAGE (RSESIZE-4 BYTES)

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	*	RACRNE	RACLIST CLASS TREE NODE ELEMENT
0	(0)	ADDRESS	4	RNELEFT	ADDRESS OF LEFT DAUGHTER NODE OR 0
4	(4)	ADDRESS	4	RNEPROF	ADDRESS OF PROFILE FOR THIS NODE
8	(8)	ADDRESS	4	RNERIGHT	ADDRESS OF RIGHT DAUGHTER NODE OR 0
12	(C)	SIGNED	4	RNEBAL	TREE BALANCING FACTOR DURING TREE CREATION
12	(C)	ADDRESS	4	RNEUP	POINTER TO MOTHER NODE DURING TREE DELETION
16	(10)	CHARACTER	*	RNEKEY	KEY (LENGTH DETERMINED BY MAXIMUM NAME LENGTH FOR CLASS IN THE CLASS DESCRIPTOR ELEMENT)

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	78	RACRPE	RESOURCE PROFILE ELEMENT
0	(0)	UNSIGNED	2	RPEPLEN	PHYSICAL STORAGE LENGTH OF BLOCK
2	(2)	UNSIGNED	2	RPELLEN	LOGICAL LENGTH OF BLOCK
4	(4)	UNSIGNED	2	RPEUCNT	NUMBER OF RESOURCES SHARING THIS PROFILE
6	(6)	CHARACTER	4	RPEATTR	ATTRIBUTE FLAGS
6	(6)	BITSTRING	1	RPEUACC	UNIVERSAL ACCESS
7	(7)	BITSTRING	1	RPEAUDIT	AUDIT FLAGS
8	(8)	BITSTRING	1	RPEGAUD	GLOBAL AUDIT FLAGS
9	(9)	BITSTRING	1	RPELEVEL	RESOURCE LEVEL

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
10	(A)	UNSIGNED	2	RPEACCNO	NUMBER OF ENTRIES IN ACCESS LIST
12	(C)	UNSIGNED	2	RPEACCOF	OFFSET TO ACCESS LIST
14	(E)	UNSIGNED	2	RPEINSOF	OFFSET TO INSTALLATION DATA
16	(10)	UNSIGNED	2	RPEAPPOF	OFFSET TO APPLICATION DATA
18	(12)	CHARACTER	8	RPEOWNER	OWNER OF RESOURCE PROFILE
26	(1A)	SIGNED	2	RPENUMDP	NUMBER OF CATEGORIES IN LIST
28	(1C)	UNSIGNED	2	RPEDPOTOF	OFFSET TO CATEGORY LIST
30	(1E)	BITSTRING	1	RPELDDAYS	DAYS TERMINAL MAY NOT BE USED (BIT 0 - SUNDAY, BIT 1 - MONDAY, ...)
31	(1F)	UNSIGNED	1	RPESECLVL	RESOURCE SECURITY LEVEL
32	(20)	CHARACTER	3	RPELOGNT	EARLIEST TIME TERMINAL MAY BE USED (HHMM)
35	(23)	CHARACTER	3	RPELOGFT	LATEST TIME TERMINAL MAY BE USED (HHMM)
38	(26)	CHARACTER	8	RPENTFY	USERID TO NOTIFY WHEN THIS PROFILE DENIES ACCESS
46	(2E)	CHARACTER	3	RPEZONE	TIME OFFSET OF TERMINAL FROM CPU. + = EAST - = WEST.
49	(31)	BITSTRING	1	RPEFLGAS RPEFWARN *	FLAGS FOR IN STORE PROFILE WARN OPTION SPECIFIED? RESERVED
50	(32)	CHARACTER	8	RPESECLBL	SECLABEL
58	(3A)	UNSIGNED	2	RPESESOFF	SESSION SEG DATA OFF
60	(3C)	UNSIGNED	2	RPESESLN	SESSION SEG DATA LEN
62	(3E)	UNSIGNED	2	RPEAC2NO	NUMBER OF OCCURRENCES
64	(40)	UNSIGNED	2	RPEAC2LN	CONDITIONAL ACCESS LIST LENGTH
66	(42)	UNSIGNED	2	RPEAC2OF	SECOND ACCESS LIST OFFSET
68	(44)	UNSIGNED	2	RPEMEMCT	NUMBER OF MEMBERS
70	(46)	UNSIGNED	2	RPEMEMLN	LENGTH OF MEMBER LIST
72	(48)	UNSIGNED	2	RPEMEMOF	OFFSET TO MEMBER LIST
74	(4A)	SIGNED	2	RPESE2LN	MORE SESSION DATA LENGTH
76	(4C)	SIGNED	2	RPESE2OF	MORE SESSION DATA OFFSET
78	(4E)	CHARACTER		RPEEND	END OF FIXED PART OF ELEMENT

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	*	RPEINST	INSTALLATION DATA VARIABLE LENGTH PORTION
0	(0)	UNSIGNED	1	RPEINSTL	INSTALLATION DATA LENGTH
1	(1)	CHARACTER	*	RPEINSTD	INSTALLATION DATA STRING

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	*	RPEAPPL	APPLICATION DATA VARIABLE LENGTH PORTION
0	(0)	UNSIGNED	1	RPEAPPLL	APPLICATION DATA LENGTH
1	(1)	CHARACTER	*	RPEAPPLD	APPLICATION DATA STRING

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	9	RPEACCLE (*)	ACCESS LIST
0	(0)	CHARACTER	8	RPEAUSR	USER/GROUP ID
8	(8)	BITSTRING	1	RPEACS	ACCESS AUTHORITY

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	2	RPEDPD (*)	CATEGORY LIST
0	(0)	SIGNED	2	RPEDEPT	CATEGORY

Offsets			Len		
Dec	Hex	Type		Name (Dim)	Description
0	(0)	STRUCTURE	*	RPESESSN	SESSION DATA
0	(0)	CHARACTER	10	RPESEFIX	FIXED LEN SESSION FIELDS
0	(0)	CHARACTER	4	RPEKYDAT	DATE KEY WAS LAST CHANGED
4	(4)	SIGNED	2	RPEKYINT	# DAYS UNTIL KEY EXPIRES
6	(6)	SIGNED	2	RPEMFAIL	MAX # OF FAILED ATTEMPTS
8	(8)	BITSTRING	1	RPELSFG	SESSION FLAGS
9	(9)	UNSIGNED	1	RPESKYLN	LENGTH OF SESSION KEY
10	(A)	CHARACTER	*	RPESEVAR	VARIABLE LEN FIELDS
10	(A)	CHARACTER	*	RPESNKEY	SESSION KEY

Offsets			Len		
Dec	Hex	Type		Name (Dim)	Description
0	(0)	STRUCTURE	*	RPEACL2	SECOND ACCESS LIST
0	(0)	CHARACTER	20	RPEA2FIX	FIXED LENGTH PORTION OF SECOND ACCESS LIST
0	(0)	CHARACTER	8	RPEA2PGM	PROGRAM NAME OR FLAGS
0	(0)	CHARACTER	1	RPEPGFLG	FLAG BYTE
1	(1)	CHARACTER	7	RPEA2RST	THE REST OF NAME OR FLAGS
8	(8)	CHARACTER	8	RPEA2USR	USERID
16	(10)	BITSTRING	1	RPEA2ACA	ACCESS AUTHORITY
17	(11)	UNSIGNED	2	RPEA2CNT	ACCESS COUNT FIELD
19	(13)	UNSIGNED	1	RPEA2VRL	VARIABLE AREA LENGTH
20	(14)	CHARACTER	*	RPEA2VAR	VARIABLE AREA
20	(14)	CHARACTER	8	RPEA2CLI	CLASS ID.
28	(1C)	CHARACTER	2	RPEA2RSV	RESERVED.
30	(1E)	UNSIGNED	1	RPEA2ELN	ENTITY LENGTH
31	(1F)	CHARACTER	*	RPEA2ENT	ENTITY

Offsets			Len		
Dec	Hex	Type		Name (Dim)	Description
0	(0)	STRUCTURE	*	RPEMEM	MEMBER LIST
0	(0)	UNSIGNED	1	RPEMEML	MEMBER LENGTH
1	(1)	CHARACTER	*	RPEMEMBR	MEMBER

Offsets			Len		
Dec	Hex	Type		Name (Dim)	Description
0	(0)	STRUCTURE	1	RPESESS2	MORE SESSION
0	(0)	CHARACTER	1	RPESE2FX	MORE SESSION FIXED FIELDS
0	(0)	BITSTRING	1	RPESECONV	CONVERSATION SECURITY

Constants

Len	Type	Value	Name	Description
1	DECIMAL	0	RPEA2DAT	FLAG DATA EQUATE

Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
RACRNE	0		1	RPENTFY	26		2
RACRPE	0		1	RPENUMDP	1A		2
RACRSE	0		1	RPEOWNER	12		2
RACRTE	0		1	RPEPGFLG	0		4
RNEBAL	C		2	RPEPLEN	0		2
RNEKEY	10		2	RPESCLBL	32		2
RNELEFT	0		2	RPESCLVL	1F		2
RNEPROF	4		2	RPESCONV	0		3
RNERIGHT	8		2	RPESEFIX	0		2
RNEUP	C		3	RPESESLN	3C		2
RPEACCLE	0		1	RPESESOF	3A		2
RPEACCNO	A		2	RPESESSN	0		1
RPEACCOF	C		2	RPESESS2	0		1
RPEACL2	0		1	RPESEVAR	A		2
RPEACS	8		2	RPESE2FX	0		2
RPEAC2LN	40		2	RPESE2LN	4A		2
RPEAC2NO	3E		2	RPESE2OF	4C		2
RPEAC2OF	42		2	RPESKYLN	9		3
RPEAPPL	0		1	RPELSFG	8		3
RPEAPPLD	1		2	RPESNKEY	A		3
RPEAPPLL	0		2	RPETZONE	2E		2
RPEAPPOF	10		2	RPEUACC	6		3
RPEATTR	6		2	RPEUCNT	4		2
RPEAUDIT	7		3	RSENEXT	0		2
RPEAUSR	0		2	RSEPOOL	6		2
RPEA2ACA	10		3	RSESIZE	4		2
RPEA2CLI	14		3	RSESTORE	8		2
RPEA2CNT	11		3	RTEALET	28		2
RPEA2ELN	1E		3	RTEASPN	12		2
RPEA2ENT	1F		3	RTECLASS	4		2
RPEA2FIX	0		2	RTEGENL	14		2
RPEA2PGM	0		3	RTEGNUM	1C		2
RPEA2RST	1		4	RTENEXT	0		2
RPEA2RSV	1C		3	RTENSPN	11		3
RPEA2USR	8		3	RTEPSPN	10		3
RPEA2VAR	14		2	RTESIZE	18		2
RPEA2VRL	13		3	RTESPNS	10		2
RPEDEPT	0		2	RTESTOKN	20		2
RPEDPTD	0		1	RTESTORE	C		2
RPEDPTOF	1C		2	RTETREE	8		2
RPEEND	4E		2				
RPEFLAGS	31		2				
RPEFWARN	31	80	3				
RPEGAUD	8		3				
RPEINSOF	E		2				
RPEINST	0		1				
RPEINSTD	1		2				
RPEINSTL	0		2				
RPEKYDAT	0		3				
RPEKYINT	4		3				
RPELDAYS	1E		2				
RPELEVEL	9		3				
RPELLEN	2		2				
RPELOGFT	23		2				
RPELOGNT	20		2				
RPEMEM	0		1				
RPEMEMBR	1		2				
RPEMEMCT	44		2				
RPEMEML	0		2				
RPEMEMLN	46		2				
RPEMEMOF	48		2				
RPEMFAIL	6		3				

OUSP: initUSP Output Parameter List

Common Name: Output parameter list for initUSP callable service
Macro ID: IRRPOUSP
DSECT Name: OUSP
Owning Component: Resource Access Control Facility (SC1BN)
Eye-Catcher ID: None
Storage Attributes: Subpool Identified in the output parameter list
 Key 0
 Residency Invoker's primary address space
Size: 2074 bytes
Created by: initUSP callable service (IRRSIU00)
Pointed to by: Address of OUSP is put into the IUSP by the initUSP callable service
Serialization: N/A
Function: Maps the output information returned by the initUSP service routine

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	2074	OUSP	
0	(0)	UNSIGNED	1	OUSP_VRSN	Version Number
1	(1)	UNSIGNED	1	OUSP_WASP	Work area subpool number
2	(2)	SIGNED	2	OUSP_LEN	OUSPFIXED + HDPNLEN + IPPNLEN
4	(4)	SIGNED	4	OUSP_UID	UID of the user
8	(8)	SIGNED	4	OUSP_GID	GID of the current group
12	(C)	SIGNED	2	OUSP_TSOULEN	Length of TSO userid
14	(E)	CHARACTER	8	OUSP_TSOU	TSO userid
22	(16)	SIGNED	2	OUSP_HDPNLEN	Length, home directory path name
24	(18)	SIGNED	2	OUSP_IPPNLEN	Length, initial program path name
26	(1A)	CHARACTER	1024	OUSP_HDPN	Maximum home directory path name
1050	(41A)	CHARACTER	1024	*	Maximum initial program path name

Constants

Len	Type	Value	Name	Description
Initial program path name.				
1	DECIMAL	0	OUSPVNC	Version Number
4	DECIMAL	26	OUSPFIXED	Length of the fixed portion of the OUSP
4	DECIMAL	2074	OUSP_FREE_LEN	Length of the OUSP to be freed

OUSP

Cross Reference

Name	Hex Offset	Hex Value	Level
OUSP	0		1
OUSP_GID	8		2
OUSP_HDPN	1A		2
OUSP_HDPNLEN	16		2
OUSP_IPPNLEN	18		2
OUSP_LEN	2		2
OUSP_TSOU	E		2
OUSP_TSOULEN	C		2
OUSP_UID	4		2
OUSP_VRSN	0		2
OUSP_WASP	1		2

PWXP: New Password Exit Parameter List

Common Name: New Password Exit Parameter List

Macro ID: ICHPWXP

DSECT Name: PWXPL

Owning Component: Resource Access Control Facility (XXH00)

Eye-Catcher ID: None

Storage Attributes: If called by the ALTUSER or PASSWORD command:
 Subpool 0
 Key Problem program

 If called by the RACROUTE REQUEST=VERIFY SVC processor:
 Subpool 229
 Key 0

Size: 56 bytes

Created by: Commands: ALTUSER, PASSWORD
 RACROUTE REQUEST=VERIFY SVC processor

Pointed to by: R1 at entry to ICHPWX01

Serialization: None

Function: Contains the list of addresses passed to the new password installation exit

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	ADDRESS	4	PWXLEN	Length address: points to a fullword containing the number of fullwords in this parameter list.
4	(4)	ADDRESS	4	PWXCALLR	Caller address: points to a 1-byte field containing the calling function identity:
		.... ..1		PWXRINIT	X'01' RACINIT
		.... ..1.		PWXPWORD	X'02' PASSWORD Command
		.... ..11		PWXALTUS	X'03' ALTUSER Command Note: If the caller is RACINIT, the ACEE control block might not be present.
8	(8)	ADDRESS	4	PWXCPPL	CPPL address: points to the TSO command processor parameter list. This applies only to the PASSWORD and ALTUSER commands. If the TSO command processor parameter list is absent, the address is zero.
12	(C)	ADDRESS	4	PWXNEWPW	NEWPASS address: points to an area of the following format: Offset 0, length 1: Length of new password. Offset 1, length 8: New password. If ENCRYPT=NO was specified, the password is treated as if it were already encrypted. If a new password is not specified, the address is zero.
16	(10)	ADDRESS	4	PWXINTVL	INTERVAL address: points to a 4-byte field containing the desired password interval from the PASSWORD command. If this interval is absent, the address is zero.
20	(14)	ADDRESS	4	PWXUSRID	Userid address: points to an area of the following format: Offset 0, length 1: Length of userid. Offset 1, length 8: Userid.

PWXP

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
24	(18)	ADDRESS	4	PWXWA	Exit work area address: points to a fullword whose contents are either: - Zero, for ALTUSER and PASSWORD commands - The contents of the user work address that RACINIT processing passes to ICHRIX01 and ICHRIX02.
28	(1C)	ADDRESS	4	PWXCURPW	Current password address points to an area of the following format: Offset 0, length 1: Length of current password. Offset 1, length 8: Current password. If ENCRYPT=NO was specified, the password is treated as if it were already encrypted.
32	(20)	ADDRESS	4	PWXPLCDA	Password Last Change Date Address: points to a 3-byte area that contains the date of the last password change. The format of this area is: <i>yydds</i> where: <i>yy</i> is the year, <i>ddd</i> is the day, and <i>s</i> is the packed decimal sign.
36	(24)	ADDRESS	4	PWXACEE	ACEE address: points to the ACEE used. This address may not be available if the caller is RACINIT.
40	(28)	ADDRESS	4	PWXGROUP	Group name address: points to a 9-byte structure containing a 1-byte length field, followed by an 8-byte field containing the connect group name.
44	(2C)	ADDRESS	4	PWXINSTL	Installation data address: points to an area containing the installation parameters. This address is only available when the caller is RACINIT and the INSTLN parameter was specified.
48	(30)	ADDRESS	4	PWXPWHST	Password history address: points to an area containing the user's password history. The passwords are in masked or encrypted format, with the oldest password first in the list. The format of the area is: a 2-byte count of the entries in the list, and for each entry a 1-byte reserved field followed by an 8-byte field containing the encrypted password. The SETROPTS PASSWORD(HISTORY(n)) option controls the number of past keywords that are kept.
52	(34)	ADDRESS	4	PWXFLAG	Flag byte address: points to a 1-byte field containing the form of the current and new passwords:
		.... ....		PWXCTEXT	X'00' Clear text form
		.... ...1		PWXETEXT	X'01' Encrypted form (If ENCRYPT=NO is specified on RACINIT, the password is treated as if it is already encrypted.) This parameter is available only if the caller is RACINIT. In all cases, if a parameter is not present, its address is zero.
56	(38)	ADDRESS	4	PWXPLCD4	Password last change date address points to a 4-byte area that contains the date of the last password change. The format of this area is: YYYYDDDS where 'YYYY' is the year, 'DDD' is the day, and 'S' is the packed decimal sign.

Cross Reference

Name	Hex Offset	Hex Value	Level
PWXACEE	24		2
PWXALTUS	4	3	2
PWXCALLR	4		2
PWXCPPL	8		2
PWXCTEXT	34	0	2
PWXCURPW	1C		2
PWXETEXT	34	1	2
PWXFLAG	34		2
PWXGROUP	28		2
PWXINSTL	2C		2
PWXINTVL	10		2
PWXLEN	0		2
PWXNEWPW	C		2
PWXPLCDA	20		2
PWXPLCD4	38		2
PWXPWHST	30		2
PWXPWORD	4	2	2
PWXRINIT	4	1	2
PWXUSRID	14		2
PWXWA	18		2

RCVT: RACF Communication Vector Table

NOT Programming Interface Information

The following fields are the only intended Programming Interfaces in RCVT:

RCVT	RCVTINAC	RCVTPNL0	RCVTTAPE
RCVTAPTR	RCVTISTL	RCVTPTGN	RCVTTDSN
RCVTCDTL	RCVTJALL	RCVTRELS	RCVTVERS
RCVTDATP	RCVTJCHK	RCVTREXP	RCVTVRMC
RCVTFLGS	RCVTJSYS	RCVTRNA	RCVTVRMF
RCVTFLG1	RCVTJUND	RCVTROFF	RCVTVRN
RCVTFRCP	RCVTJXAL	RCVTRVOK	RCVTVRMN
RCVTGLBL	RCVTMFLG	RCVTSTAT	RCVTWARN
RCVTID	RCVTPINV	RCVTSTA1	RCVTWUID

Application Programmers

The RCVT fields listed above are Programming Interfaces for input only, with the following exceptions:

- RCVTISTL and RCVTAPTR can be both input and output
- RCVTREXP and RCVTFRCP are not part of the application programming interface.

Note: For external security managers (ESMs) such as RACF or ESMs that are functionally compatible with RACF: The RCVT fields listed above are Programming Interfaces for both input and output. The ESM is responsible for creating the RCVT, attaching it to the communication vector table (CVT), and putting appropriate data into these fields in order to be compatible with RACF and the way that IBM products use the RCVT.

Common Name: RACF communication vector table

Macro ID: ICHPRCVT

DSECT Name: RCVT

Owning Component: Resource Access Control Facility (SC1BN)

Eye-Catcher ID: RCVT (Offset: 0, Length: 4)

Storage Attributes: Subpool SQA
Key 0

Size: 2308 bytes

Created by: RACF initialization or equivalent

Pointed to by: CVTRAC

Serialization: None

Function: Communication area for information global to RACF functions (or equivalent product functions)

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	2308	RCVT	LOCATED THROUGH CVT
0	(0)	CHARACTER	4	RCVTID	EBCDIC ID
4	(4)	ADDRESS	4	RCVTDCB	PTR DCB OF RACF DATA SET
8	(8)	ADDRESS	4	RCVTDEB	PTR DEB OF RACF DATA SET
12	(C)	ADDRESS	4	RCVTINDX	PTR RACF RESIDENT INDEX TABLE OR ZERO IF NO INDEX BLOCKS RESIDENT
16	(10)	ADDRESS	4	RCVTTEMP	PTR RACF INCORE TEMPLATE TABLE
20	(14)	ADDRESS	4	RCVTHDR	PTR RACF INCORE DS HEADER RECORD OR ZERO IF RACF DATA SET IS ON A SHARED DEVICE
24	(18)	ADDRESS	4	RCVTRIX	PTR RACROUTE REQUEST=VERIFY(X) EXIT
28	(1C)	ADDRESS	4	RCVTRCX	PTR RACROUTE REQUEST=AUTH EXIT
32	(20)	ADDRESS	4	RCVTRDX	PTR RACROUTE REQUEST=DEFINE EXIT
36	(24)	ADDRESS	4	RCVTRUCB	PTR UCB OF RACF DATA SET
40	(28)	SIGNED	4	RCVTXLEN	LENGTH OF INCORE INDEX RELATED CONTROL BLOCKS
44	(2C)	ADDRESS	4	RCVTBAM	LOCATES INCORE BAM INFORMATION
48	(30)	ADDRESS	4	RCVTISTL	RESERVED FOR INSTALLATION
52	(34)	ADDRESS	1	RCVTDSNL	LENGTH OF RAC DATA SET NAME
53	(35)	BITSTRING	1	RCVTSTAT	STATUS
		1... ..		RCVTRNA	RACF NOT ACTIVE
		.1.. ..		RCVTNLS	BYPASS RACINIT STATISTICS
		..1.		RCVTNDSS	BYPASS DATA SET STATISTICS
		...1		RCVTNTVS	NO TAPE VOLUME STATISTICS
		.... 1...		RCVTNDVS	NO DIRECT ACCESS VOLUME STATISTICS
		.... .1..		RCVTNTMS	NO TERMINAL STATISTICS
		.... ..1.		RCVTNADS	NO ADSP PROTECTION
		.... ...1		RCVTEGN	EGN SUPPORT IN EFFECT
54	(36)	SIGNED	2	RCVTNREC	# RECORDS PER TRACK -RACF DS
56	(38)	CHARACTER	44	RCVTDSN	DSN OF RACF DATA SET
100	(64)	CHARACTER	44	RCVTUADS	DSN OF UADS DATA SET OR ZERO
144	(90)	CHARACTER	6	RCVTUVOL	VOLID OF UADS DATA SET OR ZERO
150	(96)	BITSTRING	1	RCVTSTA1	
		1... ..		RCVTTAPE	TAPE VOLUME PROTECTION IN EFFECT
		.1.. ..		RCVTDASD	DASD VOLUME PROTECTION IN EFFECT
		..1.		RCVTDGEN	GENERIC PROFILE CHECKING IN EFFECT FOR DATASET CLASS
		...1		RCVTDGCM	GENERIC COMMAND PROCESSING IN EFFECT FOR DATASET CLASS
		.... 1...		RCVTRDSN	INPUT DATA SET NAME WILL BE USED FOR LOGGING AND MESSAGES
		.... .1..		RCVTJXAL	JES-XBMALLRACF IN EFFECT
		.... ..1.		RCVTJCHK	JES-EARLYVERIFY IN EFFECT
		.... ...1		RCVTJALL	JES-BATCHALLRACF IN EFFECT
151	(97)	BITSTRING	1	RCVTAUOP	RACF AUDIT OPTIONS
		1... ..		*	RESERVED
		.1.. ..		RCVTAGRO	AUDIT GROUP CLASS
		..1.		RCVTAUSE	AUDIT USER CLASS
		...1		RCVTADAT	AUDIT DATASET CLASS
		.... 1...		RCVTADAS	AUDIT DASDVOL CLASS
		.... .1..		RCVTATAP	AUDIT TAPEVOL CLASS
		.... ..1.		RCVTATER	AUDIT TERMINAL CLASS
		.... ...1		RCVTAOPR	AUDIT OPERATIONS ATTRIBUTE
152	(98)	BITSTRING	1	RCVTAXTA	RESERVED
153	(99)	BITSTRING	1	RCVTFLGS	STATUS FLAGS
		1... ..		RCVTROFF	RACF DEACTIVATED BY RVARV COMMAND
		.1.. ..		RCVTRDHD	RACF WAS REACTIVATED BY RVARV AND REFRESH OF THE RESIDENT ICB IS REQUIRED
		..1.		RCVTSHR	AT SOME TIME DURING THIS IPL, THE RACF DATA SET WAS ON A SHARED DASD DEVICE
		...1		RCVTNDUP	NO DUPLICATE DATA SET NAMES TO BE DEFINED
		.... 1...		RCVT24MD	AT LEAST ONE INSTALLATION EXIT HAS AMODE=24

RCVT

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
154	(9A)	.... .1..	1	RCVTRMSG	RACF MESSAGE ICH412I WAS ISSUED
		.... ..1.		RCVTWUID	RACF WORK UNIT IDENTITY SUPPORT EXISTS.
		.... ...1		RCVTGLBL	GLOBAL=YES SUPPORT EXISTS
		1...		RCVTEROP	RACF TERMINAL OPTIONS
		.1..		RCVTTERP	TERMINAL AUTHORIZATION CHECKING
				RCVTTUAC	DEFAULT UACC FOR TERMINALS NOT DEFINED TO RACF. IF ON - UACC = NONE, IF OFF - UACC = READ
		..1.		RCVTAVIO	DO NOT CREATE LOG RECORD FOR COMMAND VIOLATIONS ONLY
		...1		RCV TSAUD	DO NOT AUDIT SPECIAL USER
		.... 1111		*	RESERVED
155	(9B)	ADDRESS	1	RCVTPINV	GLOBAL MAX PASSWORD INTERVAL VALUE - VALID RANGE 1-254
156	(9C)	ADDRESS	4	RCVTRAU0	PTR TO AUDITING MODULE
160	(A0)	ADDRESS	4	RCVTRIXP	PTR RACROUTE REQUEST=VERIFY(X) POST PROCESSING EXIT
164	(A4)	ADDRESS	4	RCVTRCXP	PTR RACROUTE REQUEST=AUTH POST PROCESSING EXIT
168	(A8)	ADDRESS	4	RCVTRID0	PTR TO MISCELLANEOUS VERIFY ROUTINE
172	(AC)	ADDRESS	1	RCVTVERS	VERSION INDICATOR: HIGH NIBBLE IS THE VERSION NUMBER, (0=VERSION 1), AND THE LOW NIBBLE IS THE RELEASE NUMBER
					0 - VERSION 1 RELEASE 1 1 - VERSION 1 RELEASE 2 2 - VERSION 1 RELEASE 3 4 - VERSION 1 RELEASE 4 5 - VERSION 1 RELEASE 5 6 - VERSION 1 RELEASE 6 7 - VERSION 1 RELEASE 7 8 - VERSION 1 RELEASE 8
					(SEE FIELD RCVTVRMN FOR ACTUAL VERSION AND RELEASE NUMBER)
		1111		RCVTVRN	VERSION NUMBER IN HIGH NIBBLE
		.... 1111		RCVTRELS	RELEASE NUMBER IN LOW NIBBLE
173	(AD)	CHARACTER	3	RCVTEXTA	RESERVED
176	(B0)	ADDRESS	4	RCVTAPTR	ADDRESS FIELD RESERVED FOR APPLICATION USE
180	(B4)	ADDRESS	4	RCVTNCX	PTR NAMING CONVENTION EXIT
184	(B8)	ADDRESS	4	RCVTNCDX	PTR NAMING CONVENTION EXIT FOR DELETE FUNCTION
188	(BC)	ADDRESS	4	RCVTCDTP	PTR TO CLASS DESCRIPTOR TABLE
192	(C0)	ADDRESS	4	RCVTREXP	PTR TO RACSTAT MODULE
196	(C4)	ADDRESS	4	RCVTFRCP	PTR TO FRACHECK MODULE
200	(C8)	ADDRESS	4	RCVTFRXP	PTR RACROUTE REQUEST=FASTAUTH EXIT
204	(CC)	ADDRESS	4	RCVTRLX	PTR RACROUTE REQUEST=LIST PREPROCESSING EXIT
208	(D0)	ADDRESS	4	RCVTRLXP	PTR RACROUTE REQUEST=LIST SELECTION EXIT
212	(D4)	ADDRESS	4	RCVTDATP	PTR TO FOUR-BYTE DATE CONVERSION ROUTINE
216	(D8)	CHARACTER	8	*	RESERVED
224	(E0)	ADDRESS	4	RCVTDSDT	PTR TO DATA SET DESCRIPTOR TABLE
228	(E4)	ADDRESS	4	RCVTRNGP	PTR TO RANGE TABLE
232	(E8)	ADDRESS	4	RCVTAUTP	PTR TO RACF AUTHORIZED CALLER TABLE ICHAUTAB
236	(EC)	ADDRESS	4	RCVTPWDX	PTR TO RACF PASSWORD EXIT.
240	(F0)	UNSIGNED	1	RCVTHIST	NUMBER OF PASSWORD GENERATIONS TO MAINTAIN AND CHECK AGAINST.
241	(F1)	UNSIGNED	1	RCVTRVOK	NUMBER OF CONSECUTIVE UNSUCCESSFUL ATTEMPTS BEFORE REVOKING A USERID.
242	(F2)	UNSIGNED	1	RCVTWARN	PASSWORD WARNING VALUE.
243	(F3)	UNSIGNED	1	RCVTINAC	INACTIVATE INTERVAL.

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
244	(F4)	CHARACTER	10	RCVTSNTX (8)	PASSWORD SYNTAX RULES.
244	(F4)	UNSIGNED	1	RCVTSLEN	STARTING LENGTH VALUE.
245	(F5)	UNSIGNED	1	RCVTELEN	ENDING LENGTH VALUE.
246	(F6)	CHARACTER	8	RCVTRULS	CONTENT RULES.
246	(F6)	CHARACTER	1	RCVTRUL1	CONTENT RULE.
247	(F7)	CHARACTER	1	RCVTRUL2	CONTENT RULE.
248	(F8)	CHARACTER	1	RCVTRUL3	CONTENT RULE.
249	(F9)	CHARACTER	1	RCVTRUL4	CONTENT RULE.
250	(FA)	CHARACTER	1	RCVTRUL5	CONTENT RULE.
251	(FB)	CHARACTER	1	RCVTRUL6	CONTENT RULE.
252	(FC)	CHARACTER	1	RCVTRUL7	CONTENT RULE.
253	(FD)	CHARACTER	1	RCVTRUL8	CONTENT RULE.
324	(144)	CHARACTER	4	RCVTMDEL	MODEL OPTIONS.
324	(144)	BITSTRING	1	*	OPTIONS.
		1...		RCVTMGDG	MODEL-GDG IN EFFECT.
		.1..		RCVTMUSR	MODEL-USER IN EFFECT.
		..1.		RCVTMGRP	MODEL-GROUP IN EFFECT.
		...1 1111		*	RESERVED.
325	(145)	BITSTRING	1	*	RESERVED.
326	(146)	BITSTRING	1	*	RESERVED.
327	(147)	BITSTRING	1	*	RESERVED.
328	(148)	BITSTRING	1	RCVTWCNT	NUMBER OF VSL ENTRIES
329	(149)	BITSTRING	1	RCVTOPTX	OPTIONS.
		1...		RCVTLGRP	LIST-OF-GROUPS CHECKING IS ACTIVE.
		.111 1111		*	RESERVED
330	(14A)	CHARACTER	1	*(2)	RESERVED.
332	(14C)	ADDRESS	4	RCVTFRX3	RACROUTE REQUEST=FASTAUTH EXIT ADDR
336	(150)	CHARACTER	8	RCVTVSL (4)	VSL ENTRIES
368	(170)	SIGNED	4	RCVTCGSN	NUMBER OF CONNECT-REMOVE COMMANDS ISSUED THAT ALTERED A USER'S AUTHORITY.
372	(174)	CHARACTER	8	*	RESERVED.
380	(17C)	ADDRESS	4	RCVTRDXP	PTR RACROUTE REQUEST=DEFINE POST PROCESSING EXIT - ICHRD02
384	(180)	ADDRESS	4	RCVTFPB	BASE FOR FASTPATH TABLE.
388	(184)	CHARACTER	4	*	RESERVED.
392	(188)	BITSTRING	4	RCVTF1G1	MISCELLANEOUS OPTIONS.
		1...		RCVTFPDS	FASTPATH FOR DATASET CLASS
		.1..		RCVTTDSN	TAPE DATA SET PROTECTION IN EFFECT
		..11 1111		*	RESERVED.
393	(189)	1...		RCVTPRO	PROTECT-ALL IN EFFECT
		.1..		RCVTPROF	1 - PROTECT-ALL WARNING IN EFFECT 0 - PROTECT-ALL FAILURE IN EFFECT (THIS FLAG IS IGNORED IF RCVTPRO HAS A VALUE OF '0'B)
		..1.		RCVTEOS	ERASE-ON-SCRATCH IN EFFECT
		...1		RCVTEOSL	ERASE-ON-SCRATCH BY SECLEVEL IN EFFECT (THIS FLAG IS IGNORED IF RCVTEOS HAS A VALUE OF '0'B)
		.... 1...		RCVTEOSA	ERASE-ON-SCRATCH FOR ALL DATASETS IN EFFECT (THIS FLAG IGNORED IF RCVTEOS HAS A VALUE OF '0'B)
		.... .111		*	RESERVED.
394	(18A)	1...		RCVTPROG	ACCESS CONTROL BY PROGRAM IN EFFECT
394	(18A)	BITSTRING	1	*	RESERVED.
396	(18C)	UNSIGNED	2	RCVTRTPD	SYSTEM SECURITY RETENTION PERIOD
398	(18E)	UNSIGNED	1	RCVTS1VL	SECURITY LEVEL FOR ERASE-ON- SCRATCH
399	(18F)	UNSIGNED	1	RCVTQLLN	LENGTH OF SINGLE LEVEL DATASET NAME PREFIX
400	(190)	CHARACTER	9	RCVTQUAL	INSTALLATION CONTROLLED PREFIX FOR SINGLE LEVEL DATASET NAMES, PLUS PERIOD FOR LEVEL
409	(199)	UNSIGNED	1	RCVTS1AU	SECLEVEL TO AUDIT
410	(19A)	BITSTRING	1	RCVTM1FLG	MISCELLANEOUS FLAGS
		1...		RCVTVM1FM	RACF VERSION, RELEASE, AND MODIFICATION FLAG FOR THE ICQ (TSO) SUPPORT IN 1.8.1

RCVT

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		.1..		RCVT310U	RUNNING MVS/SP 3.1.0 OR UP
		..1.		RCVTXMFR	EXTENDED FASTAUTH AVAILABLE
		...1		RCVTDYNL	SUPPORT FOR DYNAMIC LNKLST IS PROVIDED BY THIS SECURITY PRODUCT
		.... 1..		RCVTD4OK	DATE CONVERSION ROUTINE IS AVAILABLE.
		.... .1..		RCVTXRCO	EXTENDED ENVRIN AVAILABLE
		.... ..1.		RCVT4INF	SUPPORT FOR 4 BYTE DATES ON PROGRAMMING INTERFACES IS AVAILABLE
		.... ...1		RCVTTLPS	TASK LEVEL ACEE SUPPORT AVAILABLE FOR CALLABLE SERVICE
411	(19B)	BITSTRING	1	RCVTMFL1	MORE MISCELLANEOUS FLAGS
		1...		*	RESERVED
		.1..		RCVTXFAR	FASTAUTH ENVRIN/SETOPTS RACLIST SUPPORT AVAILABLE
		..11 1111		*	RESERVED
412	(19C)	ADDRESS	4	RCVTSPT	POINTER TO THE STARTED PROCEDURES TABLE (ICHRIN03)
416	(1A0)	ADDRESS	4	RCVTDESX	POINTER TO THE PASSWORD ENCRYPTION INSTALLATION EXIT (ICHDEX01)
420	(1A4)	ADDRESS	4	RCVTNTAB	POINTER TO THE NAMING CONVENTION TABLE (ICHNCV00)
424	(1A8)	ADDRESS	4	RCVTNRTN	POINTER TO THE NAMING CONVENTION ROUTINE (ICHNRT00)
428	(1AC)	ADDRESS	4	RCVTFRX2	ADDRESS OF RACROUTE REQUEST=FASTAUTH POST PROCESSING INSTALLATION EXIT (ICHRFX02)
432	(1B0)	CHARACTER	8	RCVTPROB	ADDRESSES OF CONTROLLED PROGRAMS LIST ANCHOR BLOCKS
432	(1B0)	ADDRESS	4	RCVTCISP	ADDRESS OF CURRENT ANCHOR FOR CONTROLLED PROGRAMS LIST
436	(1B4)	ADDRESS	4	RCVTOISP	ADDRESS OF OLD ANCHOR FOR CONTROLLED PROGRAMS LIST
440	(1B8)	CHARACTER	8	RCVTSWPW	PASSWORD FOR RVARV SWITCH
448	(1C0)	CHARACTER	8	RCVTINPW	PASSWORD FOR RVARV STATUS
456	(1C8)	ADDRESS	4	RCVTLARP	PTR TO LINKAGE ASSIST ROUTINE FOR INSTALL EXITS (ICHLAR00)
460	(1CC)	ADDRESS	4	RCVTCTV0	ADDRESS OF TVTOC UTILITY (ICHCTV00)
464	(1D0)	ADDRESS	4	RCVTPNL0	POINTER TO PROFILE NAME LIST ROUTINE
468	(1D4)	ADDRESS	4	RCVTSKGN	POINTER TO SESSION KEY ROUTINE
472	(1D8)	CHARACTER	124	*	RESERVED.
596	(254)	ADDRESS	4	RCVTGLS1	ADDRESS OF GENLIST DELETE ROUTINE (ICHGLS01)
600	(258)	ADDRESS	4	RCVTRCVX	ADDRESS OF RCVT EXTENSION AREA
604	(25C)	ADDRESS	4	RCVTLAR2	ADDRESS OF ICHLAR02
608	(260)	ADDRESS	4	RCVTFLT0	ADDRESS OF IRRFLT00
612	(264)	ADDRESS	4	RCVTFLT1	ADDRESS OF IRRFLT01
616	(268)	CHARACTER	4	RCVTVRMN	RACF VERSION, RELEASE, AND MODIFICATION NUMBER (VRRM)
620	(26C)	SIGNED	4	RCVTVMSP	ICB SYNC COUNT VM 370
624	(270)	SIGNED	4	RCVTVMXA	ICB SYNC COUNT VM XA
628	(274)	BITSTRING	1	RCVTFLG2	RACF 1.9.0 SETOPTS OPTIONS
		1...		RCVTSLCL	SETOPTS SECLABELCONTROL IS ACTIVE
		.1..		RCVTCATD	SETOPTS CATDSNS IS ACTIVE
		..1.		RCVTMLQT	SETOPTS MLQUIET IS ACTIVE
		...1		RCVTMLST	SETOPTS MLSTABLE IS ACTIVE
		.... 1..		RCVTMLS	SETOPTS MLS IS ACTIVE
		.... .1..		RCVTMLAC	SETOPTS MLACTIVE IS ACTIVE
		.... ..1.		RCVTGNOW	SETOPTS GENERICOWNER IS ACTIVE
		.... ...1		RCVTAUSL	SETOPTS SECLABELAUDIT IS ACTIVE
629	(275)	BITSTRING	1	RCVTLOGD	LOGOPTIONS FOR DATASET IS ACTIVE
		1...		RCVTDLGA	LOGOPTIONS "ALWAYS" FOR THE DATASET CLASS IS ACTIVE
		.1..		RCVTDLGN	LOGOPTIONS "NEVER" FOR THE DATASET CLASS IS ACTIVE

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		..1.		RCVTDLGS	LOGOPTIONS "SUCCESSSES" FOR THE DATASET CLASS IS ACTIVE
		...1		RCVTDLGF	LOGOPTIONS "FAILURES" FOR THE DATASET CLASS IS ACTIVE
		.... 1111		*	RESERVED
630	(276)	SIGNED	2	RCVTSINT	LU SESSION INTERVAL
632	(278)	CHARACTER	64	*	RESERVED.
696	(2B8)	CHARACTER	8	RCVTJSYS	USER-ID FROM THE SETROPTS COMMAND JES(NJEUSERID(USER-ID))
704	(2C0)	CHARACTER	8	RCVTJUND	USER-ID FROM THE SETROPTS COMMAND JES(UNDEFINEDUSER(USER-ID))
712	(2C8)	ADDRESS	4	RCVTTMP2	ADDRESS OF RDS TEMPLATES
716	(2CC)	ADDRESS	4	RCVTRCK4	ADDRESS OF IRRRCK04
720	(2D0)	ADDRESS	4	RCVTSVC0	ADDRESS OF ICHSVC00
724	(2D4)	ADDRESS	4	RCVTPTGN	ADDRESS OF THE PASSTICKET ROUTINE
728	(2D8)	ADDRESS	4	RCVTRFX4	ADDRESS OF THE FASTAUTH POST-PROCESSING INSTALLATION EXIT FOR DATASPACE (ICHRFX04)
732	(2DC)	ADDRESS	4	RCVTDX11	ADDRESS OF ICHDEX11
736	(2E0)	ADDRESS	4	RCVTXLT0	ADDRESS OF IRRRXT02
740	(2E4)	ADDRESS	4	RCVTGLS6	ADDRESS OF ICHGLS06
744	(2E8)	ADDRESS	4	RCVTDPTB	ADDRESS OF DYNAMIC PARSE TABLE
748	(2EC)	ADDRESS	4	RCVTRCK2	ADDRESS OF IRRRCK02
752	(2F0)	ADDRESS	4	RCVTRX10	ADDRESS OF IRRRXT10
756	(2F4)	ADDRESS	4	RCVTRX11	ADDRESS OF IRRRXT11
760	(2F8)	ADDRESS	4	RCVTDSPC	ADDRESS OF IRRDSP00
764	(2FC)	BITSTRING	1	RCVTF2X	RACF SETROPTS OPTIONS
		1...		RCVTCMPM	SETROPTS COMPATMODE IS ACTIVE
		.1...		RCVTMLSF	1 - SETROPTS MLS (FAILURES) IS IN EFFECT 0 - SETROPTS MLS (WARNING) IS IN EFFECT
		..1.		RCVTMLAF	1 - SETROPTS MLACTIVE (FAILURES) IS IN EFFECT 0 - SETROPTS MLACTIVE (WARNING) IS IN EFFECT
		...1		RCVTCATF	1 - SETROPTS CATDSNS (FAILURES) IS IN EFFECT 0 - SETROPTS CATDSNS (WARNING) IS IN EFFECT
		.... 1...		RCVTAAPL	SETROPTS APPLAUDIT IS ACTIVE
		.... .1..		RCVTNADC	SETROPTS NOADDCREATOR IS IN EFFECT
		.... ..11		*	Reserved
765	(2FD)	BITSTRING	1	RCVTNJEF	NJE Flags
		1...		RCVTJWTO	Flag indicating WTO has been issued for NJE, if "ON" - (1)
		.111 1111		*	Reserved
766	(2FE)	BITSTRING	128	RCVTVCPR	Class protection mask
894	(37E)	BITSTRING	128	RCVTVCGE	Generic profile checking mask
1022	(3FE)	BITSTRING	128	RCVTVCGC	Generic command checking mask
1150	(47E)	BITSTRING	128	RCVTVRCL	CDT-anchored RACLISTed profile mask
1278	(4FE)	BITSTRING	128	RCVTVGNL	CDT-anchored GENLISTed profile mask
1406	(57E)	BITSTRING	128	RCVTVFPT	Fastpath option mask
1534	(5FE)	BITSTRING	128	RCVTVCAU	Auditing option mask
1662	(67E)	BITSTRING	128	RCVTVGST	Statistics option mask
1790	(6FE)	BITSTRING	128	RCVTVLGA	SETROPTS LOGOPTIONS ALWAYS mask
1918	(77E)	BITSTRING	128	RCVTVLNV	SETROPTS LOGOPTIONS NEVER mask
2046	(7FE)	BITSTRING	128	RCVTVLGS	SETROPTS LOGOPTIONS SUCCESSSES mask
2174	(87E)	BITSTRING	128	RCVTVLGF	SETROPTS LOGOPTIONS FAILURES mask
2302	(8FE)	CHARACTER	2	*	Reserved
2304	(900)	UNSIGNED	4	RCVTCDTL	Length of a CDT entry
2308	(904)	CHARACTER		*	END OF RCVT

RCVT

Constants

Len	Type	Value	Name	Description
1	DECIMAL	8	RCVTVERN	VERSION NUMBER VALUE: HIGH NIBBLE IS THE VERSION NUMBER, (0=VERSION 1), AND THE LOW NIBBLE IS THE RELEASE NUMBER
4	CHARACTER	2060	RCVTVRMC	RACF VERSION, RELEASE, AND MODIFICATION NUMBER
4	CHARACTER	1081	RCVTVR81	Indicates RACF 1.8.1
4	CHARACTER	1090	RCVTVR19	Indicates RACF 1.9.0
4	CHARACTER	1092	RCVTVR92	Indicates RACF 1.9.2
4	CHARACTER	2010	RCVTVR21	Indicates RACF 2.1.0
4	CHARACTER	2020	RCVTVR22	Indicates RACF 2.2.0
4	CHARACTER	2030	RCVTVR23	Indicates RACF 2.3.0
4	CHARACTER	2040	RCVTVR24	Indicates RACF 2.4.0
4	CHARACTER	2060	RCVTVR26	Indicates RACF 2.6.0
4	CHARACTER	1100	RCVTV110	Indicates VM only
4	CHARACTER	RCVT	RCVTIDC	EBCDIC RCVT ID, FOR THE RCVT CONTROL BLOCK

Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
RCVT	0		1	RCVTEGN	35	01	3
RCVTAAPL	2FC	08	3	RCVTELEN	F5		3
RCVTADAS	97	08	3	RCVTEOS	189	20	3
RCVTADAT	97	10	3	RCVTEOSA	189	08	3
RCVTAGRO	97	40	3	RCVTEOSL	189	10	3
RCVTAOPR	97	01	3	RCVTEROP	9A		2
RCVTAPTR	B0		2	RCVTEXTA	AD		2
RCVTATAP	97	04	3	RCVTFLGS	99		2
RCVTATER	97	02	3	RCVTFLG1	188		2
RCVTAUOP	97		2	RCVTFLG2	274		2
RCVTAUSE	97	20	3	RCVTFLT0	260		2
RCVTAUSL	274	01	3	RCVTFLT1	264		2
RCVTAUTP	E8		2	RCVTFL2X	2FC		2
RCVTAVIO	9A	20	3	RCVTFPB	180		2
RCVTAXTA	98		2	RCVTFPDS	188	80	3
RCVTBAM	2C		2	RCVTFRCP	C4		2
RCVTCATD	274	40	3	RCVTFRXP	C8		2
RCVTCATF	2FC	10	3	RCVTFRX2	1AC		2
RCVTCDTL	900		2	RCVTFRX3	14C		2
RCVTCDTP	BC		2	RCVTFRX4	2D8		2
RCVTCGSN	170		2	RCVTGLBL	99	01	3
RCVTCISP	1B0		3	RCVTGLS1	254		2
RCVTCMPM	2FC	80	3	RCVTGLS6	2E4		2
RCVTCV0	1CC		2	RCVTGNOW	274	02	3
RCVTDASD	96	40	3	RCVTHDR	14		2
RCVTDATP	D4		2	RCVTHIST	F0		2
RCVTDCEB	4		2	RCVTID	0		2
RCVTDEB	8		2	RCVTINAC	F3		2
RCVTDESX	1A0		2	RCVTINDX	C		2
RCVTDGCM	96	10	3	RCVTINPW	1C0		2
RCVTDGEN	96	20	3	RCVTISTL	30		2
RCVTDLGA	275	80	3	RCVTJALL	96	01	3
RCVTDLGF	275	10	3	RCVTJCHK	96	02	3
RCVTDLGN	275	40	3	RCVTJSYS	2B8		2
RCVTDLGS	275	20	3	RCVTJUND	2C0		2
RCVTDPTB	2E8		2	RCVTJWTO	2FD	80	3
RCVTDSDT	E0		2	RCVTJXAL	96	04	3
RCVTDSN	38		2	RCVTLARP	1C8		2
RCVTDSNL	34		2	RCVTLAR2	25C		2
RCVTDSPC	2F8		2	RCVTLGRP	149	80	3
RCVTDX11	2DC		2	RCVTLOGD	275		2
RCVTDYNL	410	10	3	RCVTMDEL	144		2
RCVTD4OK	19A	08	3	RCVTMFLG	19A		2

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
RCVTMGDG	144	80	4	RCVTRUL7	FC		4
RCVTMGRP	144	20	4	RCVTRUL8	FD		4
RCVTMLAC	274	04	3	RCVTRVOK	F1		2
RCVTMLAF	2FC	20	3	RCVTRX10	2F0		2
RCVTMLQT	274	20	3	RCVTRX11	2F4		2
RCVTMLS	274	08	3	RCVTSAUD	9A	10	3
RCVTMLSF	2FC	40	3	RCVTSHR	99	20	3
RCVTMLST	274	10	3	RCVTSINT	276		2
RCVTMUSR	144	40	4	RCVTSKGN	1D4		2
RCVTNADC	2FC	04	3	RCVTSLAU	199		2
RCVTNADS	35	02	3	RCVTSLCL	274	80	3
RCVTNCDX	B8		2	RCVTSLEN	F4		3
RCVTNCX	B4		2	RCVTSLVL	18E		2
RCVTNDSS	35	20	3	RCVTSNTX	F4		2
RCVTNDUP	99	10	3	RCVTSPT	19C		2
RCVTNDVS	35	08	3	RCVTSTAT	35		2
RCVTNJEF	2FD		2	RCVTSTA1	96		2
RCVTNLS	35	40	3	RCVTSVC0	2D0		2
RCVTNREC	36		2	RCVTSWPW	1B8		2
RCVTNRTN	1A8		2	RCVTTAPE	96	80	3
RCVTNTAB	1A4		2	RCVTTDSN	188	40	3
RCVTNTMS	35	04	3	RCVTTEMP	10		2
RCVTNTVS	35	10	3	RCVTTERP	9A	80	3
RCVTOISP	1B4		3	RCVTTLPS	19A	01	3
RCVTOPTX	149		2	RCVTTMP2	2C8		2
RCVTPINV	9B		2	RCVTTUAC	9A	40	3
RCVTPNL0	1D0		2	RCVTUADS	64		2
RCVTPRO	189	80	3	RCVTUVOL	90		2
RCVTPROB	1B0		2	RCVTVCAU	5FE		2
RCVTPROF	189	40	3	RCVTVCGC	3FE		2
RCVTPROG	18A	80	3	RCVTVCGE	37E		2
RCVTPTGN	2D4		2	RCVTVCPR	2FE		2
RCVTPWDX	EC		2	RCVTVCST	67E		2
RCVTQLLN	18F		2	RCVTVERS	AC		2
RCVTQUAL	190		2	RCVTVFPT	57E		2
RCVTRAU0	9C		2	RCVTVGNL	4FE		2
RCVTRCK2	2EC		2	RCVTVLGA	6FE		2
RCVTRCK4	2CC		2	RCVTVLGF	87E		2
RCVTRCVX	258		2	RCVTVLGS	7FE		2
RCVTRCX	1C		2	RCVTVLNV	77E		2
RCVTRCXP	A4		2	RCVTVMSP	26C		2
RCVTRDHD	99	40	3	RCVTVMXA	270		2
RCVTRDSN	96	08	3	RCVTVRCL	47E		2
RCVTRDX	20		2	RCVTVRMF	19A	80	3
RCVTRDXP	17C		2	RCVTVRMN	268		2
RCVTRELS	AC	0F	3	RCVTVRN	AC	F0	3
RCVTREXP	C0		2	RCVTVSL	150		2
RCVTRID0	A8		2	RCVTWARN	F2		2
RCVTRIX	18		2	RCVTWCNT	148		2
RCVTRIXP	A0		2	RCVTWUID	99	02	3
RCVTRLX	CC		2	RCVTXLEN	28		2
RCVTRLXP	D0		2	RCVTXLT0	2E0		2
RCVTRMSG	99	04	3	RCVTXMF	19A	20	3
RCVTRNA	35	80	3	RCVTXR	19A	04	3
RCVTRNGP	E4		2	RCVTXRCO	19A	04	3
RCVTROFF	99	80	3	RCVT24MD	99	08	3
RCVTRTPD	18C		2	RCVT310U	19A	40	3
RCVTRUCB	24		2	RCVT4INF	19A	02	3
RCVTRULS	F6		3				
RCVTRUL1	F6		4				
RCVTRUL2	F7		4				
RCVTRUL3	F8		4				
RCVTRUL4	F9		4				
RCVTRUL5	FA		4				
RCVTRUL6	FB		4				

RCVT

_____ End of NOT Programming Interface Information _____

RCXP: RACROUTE REQUEST=AUTH Exit Parameter List

Common Name: RACROUTE REQUEST=AUTH exit parameter list
Macro ID: ICHRCXP
DSECT Name: RCXPL
Owning Component: Resource Access Control Facility (XXH00)
Eye-Catcher ID: None
Storage Attributes: Subpool 229
 Key 0
Size: 140 bytes
Created by: RACROUTE REQUEST=AUTH function
Pointed to by: R1 at entry to ICHRCX01 and ICHRCX02
Serialization: None
Function: Contains the list of addresses passed to RACROUTE REQUEST=AUTH function pre- and postprocessing installation exits

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	ADDRESS	4	RCXLEN	Length address: points to a fullword containing the number of fullwords in this parameter list.
4	(4)	ADDRESS	4	RCXFLAG	Flag byte 1 address: points to a 1-byte area of the following format:
		.... ....		RCXFINOT	B'00000000' 00.. RACFIND was not specified.
		1...		RCXFINO	B'10000000' 10.. RACFIND=NO was specified.
		11..		RCXFIYES	B'11000000' 11.. RACFIND=YES was specified.
		..1.		RCXFLGNM	B'00100000' ..1. ENTITYX was specified.
		...1		RCXDTPV	B'00010000' ...1 DSTYPE=V was specified.
		.... 1...		RCX31BA	B'00001000' 1... 31 bit addressing
		.... .1..		RCXLGNOF	B'00000100' .... .1.. LOG=NOFAIL was specified.
		.... ..1.		RCXLGNON	B'00000010' .... ..1. LOG=NONE was specified.
		.... .11.		RCXLGNOS	B'00000110' .... .11. LOG=NOSTAT was specified.
		.... ....		RCXLGNOA	B'00000000' .... .00. LOG=ASIS was specified.
		.... ...1		RCXENTTY	B'00000001' .... ...1 ENTITY=(entity name addr, CSA) or ENTITYX=(entity name addr, CSA) was specified.
8	(8)	ADDRESS	4	RCXFLAG2	Flag byte 2 address: points to a 1-byte area of the following format:
		1...		RCXATTAL	B'10000000' 1000 0000 ATTR=ALTER was specified.
		.... 1...		RCXATTCO	B'00001000' 0000 1000 ATTR=CONTROL was specified.
		.... .1..		RCXATTUP	B'00000100' 0000 0100 ATTR=UPDATE was specified.
		.... ..1.		RCXATTRE	B'00000010' 0000 0010 ATTR=READ was specified (or assumed). This value is derived from the ATTR parameter on the RACHECK macro instruction. Note that bit mapping for ATTR differs from bit mapping for the access code (pointed to by RCXACC, offset 48 in the parameter list), which matches the mapping in the RACF data set.
12	(C)	ADDRESS	4	RCXFLAG3	Flag byte 3 address: points to a 1-byte area of the following format:
		1...		RCXDTPYPT	B'10000000' 1... DSTYPE=T
		..1.		RCXDTPYPM	B'01000000' ..1. DSTYPE=M was specified.

RCXP

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		.... ....		RCXENDSN	B'00000000' ..0. ENTITY=dsname or ENTITYX=dsname; tape volser or DASD volser address was specified.
		..1.		RCXPRPRA	B'00100000' ..1. PROFILE=profile address was specified.
		...1		RCXSTWRN	B'00010000' ...1 STATUS=WARNING was specified. 0... Reserved.
		.... .1..		RCXGENYS	B'00000100' .... .1.. GENERIC=YES was specified.
		.... .1.		RCXPAPRO	B'00000010' .... .1. Private area profile requested. .... .0 Reserved.
16	(10)	ADDRESS	4	RCXINSTL	INSTLN address: points to an area containing the installation parameters. This address is zero if INSTLN was not specified. None of the system modules specify the INSTLN parameter. It is intended for use by installation-written routines that invoke RACHECK to communicate with the RACROUTE REQUEST=AUTH preprocessing and postprocessing exit routines. Do not confuse this value with the DATA address (pointed to by RCXDATA, offset 32 in the parameter list) that comes from a field in the RACF profile for the resource being checked.
20	(14)	ADDRESS	4	RCXENORP	ENTITY, ENTITYX, or PROFILE address: points to an area containing the resource name (for ENTITY or ENTITYX) or an area containing the profile (for PROFILE). If ENTITY or ENTITYX is used, this area is 44 bytes long for the DATASET class. For general resource classes, the length is taken from the class descriptor table. The name or number is left-justified and padded on the right with blanks. If the exit changes this value, the RACF profile affected is changed but RACF does not communicate the change to the invoker of RACHECK. For example, if a user's authority to a data set is being checked and the exit changes the entity value, the RACF profile checked is the one named by the changed value, but the data set itself is unchanged. Similar processing applies to the OLDVOL, VOLSER, OWNER, and CLASS parameters. Note: If you change the entity name, also change the qualifier, whose address is in CNXQUAL in the ICHCXP parameter list, to reflect this change. If the exit changes the volser or class fields, and the RACHECK uses the conditional access list, an abend306 may later occur.
24	(18)	ADDRESS	4	RCXCLASS	CLASS address: points to an area containing a 1-byte length field containing the classname length followed by a field containing the entity class name.
28	(1C)	ADDRESS	4	RCXVSER	VOLSER address: points to a 6-byte area containing the volume serial number. This address points to an area containing blanks if the class is not DATASET.
32	(20)	ADDRESS	4	RCXDATA	DATA address: points to a 1-byte length field followed by the installation data for the entity specified on RACHECK. This address is zero for the preprocessing routine. This address is zero for the postprocessing routine if (1) no data is present, (2) the profile could not be retrieved, or (3) the preprocessing routine indicated bypassing of RACHECK.
36	(24)	ADDRESS	4	RCXWA	Work area address: points to a fullword of zeroes on the initial entry to the preprocessing routine. An installation can use this field for any purpose. Because this field is set to zeroes before entry to the preprocessing exit, the preprocessing and postprocessing exits can use this work area to communicate with each other.

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
40	(28)	ADDRESS	4	RCXCOMP	ABEND code address: points to a 4-byte field containing the ABEND code that RACHECK is going to issue. The ABEND code is contained in the low-order 12 bits of the field. The address points to an area containing zeroes if RACHECK is not going to issue an ABEND. (If ABEND processing is to be bypassed by RACHECK, the exit routine can zero the ABEND code. In this case, the exit routine should also set the return code to zero; otherwise, the ABEND reason code will be passed to the RACHECK caller as a return code.) Do not confuse an ABEND issued by RACHECK with one issued by an invoker of RACHECK. If a user is not authorized to a resource, RACHECK will not issue an ABEND, but the invoker of RACHECK might. For example, OPEN might issue a 913 ABEND in this case, although RACHECK completed without any ABEND.
44	(2C)	ADDRESS	4	RCXRCODE	Return code address: points to a 4-byte field containing either: <ol style="list-style-type: none"> the return code to be passed back to the RACHECK caller in response to the access request. For the meanings of these return codes, see <i>OS/390 Security Server External Security Interface (RACROUTE) Macro Reference</i>. the reason code used to cause the ABEND to be issued. For meanings of these ABEND reason codes, see <i>OS/390 Security Server (RACF) Messages and Codes</i>. <p>Changes to the field pointed to by RCXRCODE do not affect the values pointed to by RCXFLAG2 (attempted access) and RCXACC (allowed access).</p> <p>Note: Do not confuse this code with the return code from the RACROUTE REQUEST=AUTH preprocessing and postprocessing exits described in <i>OS/390 Security Server (RACF) System Programmer's Guide</i>.</p>
48	(30)	ADDRESS	4	RCXACC	Access code address: points to a 1-byte field containing the user's authorization to the resource that is being checked: <ul style="list-style-type: none"> X'80' - ALTER X'40' - CONTROL X'20' - UPDATE X'10' - READ X'09' - EXECUTE (both X'08' and X'01' are set) X'01' - NONE. The area is zero if (1) the profile could not be retrieved, or (2) the preprocessing routine indicated bypassing RACHECK.
		1... .. .1.. .. ..1. .... ...1 1..1.... ...1		RCXALTER RCXCONTR RCXUPDAT RCXREAD RCXEXEC RCXNONE	
52	(34)	ADDRESS	4	RCXRLLV	Resource level number address: points to a 1-byte field containing the LEVEL value from the resource profile. This address is zero for the preprocessing routine. This address is zero for the postprocessing routine if (1) the profile could not be retrieved, or (2) the preprocessing routine indicated bypassing of RACHECK.
56	(38)	ADDRESS	4	RCXOLVOL	OLDVOL address: points to a 6-byte area containing the volume serial number of a previously defined volume of a multivolume data set or tape volume set. This is blank if OLDVOL was not specified.

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Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
60	(3C)	ADDRESS	4	RCXCNXPL	Naming conventions address: points to the parameter list of the ICHCNX00 exit. The ICHCNX00 exit invoked by RACF commands and the IRRUT100 utility allows an installation to modify or eliminate the RACF DASD data set naming convention. Corresponding processing might be required in the RACROUTE REQUEST=AUTH preprocessing exit, so a parameter list with similar structure and content is passed to it to allow the use of common routines.
64	(40)	ADDRESS	4	RCXAPPLN	APPL name address: points to an eight-byte field containing the application name (if supplied on the RACHECK macro instruction). The name is left-justified and padded with blanks. If the APPL parameter was not specified, the field contains blanks. RACHECK processing does not reference this field; this field is intended to provide additional information for the exit routines.
68	(44)	ADDRESS	4	RCXACEE	ACEE address: points to a fullword containing the address of the ACEE parameter of the RACHECK macro instruction, which is used during RACHECK processing. If the ACEE parameter was not specified on the RACHECK macro instruction, the fullword pointed to by TCBSENV in the current task control block (TCB) or ASXBSENV in the address space extension block (ASXB) is used during RACHECK processing. The ACEE being used for RACHECK processing is also used for authority checking unless user ID was specified (RCXUSRID is nonzero) or utoken was specified (RCXUTOKN is nonzero). In this case, an ACEE is created for the user ID specified or found in the UTOKEN, as part of RACHECK processing. ACEE3PTY points to the ACEE used for authority checking when the post-processing exit gets control. Note that this is NOT available in a pre-processing exit.
72	(48)	ADDRESS	4	RCXOWNER	OWNER address: points to an eight-byte area containing an identifier that is to be compared with the OWNER field in the resource profile whose access is being checked. If the OWNER parameter was not specified on the RACHECK macro instruction, the area pointed to by this address contains blanks. Note that use of the owner field causes RACHECK to bypass checking of the OPERATIONS attribute during authority checking.
76	(4C)	ADDRESS	4	RCXLCNTL	Logging control address: points to a fullword that the postprocessing exit can use to control auditing of the resource profiles. On entry, the fullword is set to zero. The exit may change this value to a 4 to unconditionally request logging or to 8 to unconditionally suppress logging of the resource profiles. (Note that you can never override the GLOBALAUDIT option. Also, RCXLCNTL will not suppress other RACHECK auditing: UAUDIT, SAUDIT, OPERAUDIT, LOGOPTIONS, SECLABELAUDIT, SECLEVELAUDIT)
80	(50)	ADDRESS	4	RCXACCLV	ACCLVL value address: points to a 1-byte length field followed by 0 to 8 bytes of data from the first subparameter in the ACCLVL keyword on the RACHECK macro.
84	(54)	ADDRESS	4	RCXACCLP	ACCLVL parameter list address: points to the parameter list passed as the second subparameter in the ACCLVL keyword on the RACHECK macro.

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
88	(58)	ADDRESS	4	RCXSEQNO	Address of file sequence number points to a two-byte field containing the file sequence number for a tape data set.
92	(5C)	ADDRESS	4	RCXTFLAG	Address of tape flag byte: points to a 1-byte area of the following format: B'10000000' 10.. TAPBL=BLP was specified. B'01000000' 01.. TAPBL=NL was specified. B'00000000' 00.. TAPBL=STD was specified. ..00 0000 Reserved.
96	(60)	ADDRESS	4	RCXFLAG4	Address of fourth flag byte: points to a 1-byte area of the following format: B'10000000' 1... STATUS=ERASE was specified B'01000000' .1.. STATUS=EVERDOM was specified B'00100000' ..1. STATUS=WRITEONLY was specified B'00010000' ...1 STATUS=ACCESS was specified 0000 Reserved.
100	(64)	ADDRESS	4	RCXREASN	RACHECK reason code address: points to a 4-byte field containing the reason code to be used with the return code pointed to by offset 44. See <i>OS/390 Security Server External Security Interface (RACROUTE) Macro Reference</i> for the meanings of the RACHECK reason codes. Do not confuse this reason code with the ABEND reason code.
104	(68)	ADDRESS	4	RCXNOTIF	Address of NOTIFY userid: an 8-byte area containing the userid of the user to be notified when RACF detects an unauthorized attempt to access a resource protected by this profile. This field is valid only for the postprocessing exit and only if the PROFILE specified NOTIFY.
108	(6C)	ADDRESS	4	RCXUSRID	Address of USERID for third party RACHECK: an 8-byte area containing the userid of the user whose access authority is to be checked.
112	(70)	ADDRESS	4	RCXGRPID	Address of GROUPID for third party RACHECK: an 8-byte area containing the GROUPID of the user whose access authority is to be checked. This field is valid only if USERID was also specified on the RACHECK.
116	(74)	ADDRESS	4	RCXDDNAM	Address of DDNAME: points to an 8-byte area containing the ddname associated with the dataset name specified as the ENTITY/ENTITYX name, or 8 blanks if DDNAME was not specified.
120	(78)	ADDRESS	4	RCXFLAG5	Flag byte 5 address: points to a 1-byte area of the following format: ACEE is a DCE unauthenticated client. ACEE is a DCE server. Reserved
124	(7C)	ADDRESS	4	RCXUTOKN	Address of UTOKEN - a User security TOKEN - the security relevant data that is mapped by ICHRUTKN macro.
128	(80)	ADDRESS	4	RCXRTOKN	Address of RTOKEN - a Resource security TOKEN - the security relevant data that is mapped by ICHRUTKN macro.
132	(84)	ADDRESS	4	RCXLOGST	Address of LOGSTR: a variable length field that is one byte length followed by the character data that the issuer of RACHECK wants to be appear in the SMF record.
136	(88)	ADDRESS	4	RCXRECVR	Address of RECVR for TSO RECEIVE command: an 8 byte area containing the userid that should match the id in ACEE in order to pass the authority check.

RCXP

Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
RCXACC	30		2	RCXTFNL	5C	40	2
RCXACCLP	54		2	RCXTFSTD	5C	0	2
RCXACCLV	50		2	RCXUPDAT	30	20	2
RCXACEE	44		2	RCXUSRID	6C		2
RCXALTER	30	80	2	RCXUTOKN	7C		2
RCXAPPLN	40		2	RCXVSER	1C		2
RCXATTAL	8	80	2	RCXWA	24		2
RCXATTCO	8	8	2	RCX31BA	4	8	2
RCXATTRE	8	2	2				
RCXATTUP	8	4	2				
RCXCLASS	18		2				
RCXCXPL	3C		2				
RCXCOMP	28		2				
RCXCONTR	30	40	2				
RCXDATA	20		2				
RCXDDNAM	74		2				
RCXDTPM	C	40	2				
RCXDTPPT	C	80	2				
RCXDTPPV	4	10	2				
RCXENDSN	C	0	2				
RCXENORP	14		2				
RCXENTTY	4	1	2				
RCXEXEC	30	9	2				
RCXFINO	4	80	2				
RCXFINOT	4	0	2				
RCXFIYES	4	C0	2				
RCXFLAG	4		2				
RCXFLAG2	8		2				
RCXFLAG3	C		2				
RCXFLAG4	60		2				
RCXFLAG5	120		2				
RCXFLGNM	4	20	2				
RCXGENYS	C	4	2				
RCXGRPID	70		2				
RCXINSTL	10		2				
RCXLCNTL	4C		2				
RCXLEN	0		2				
RCXLGNOA	4	0	2				
RCXLGNOF	4	4	2				
RCXLGNON	4	2	2				
RCXLGNOS	4	6	2				
RCXLOGST	84		2				
RCXNONE	30	1	2				
RCXNOTIF	68		2				
RCXOLVOL	38		2				
RCXOWNER	48		2				
RCXPAPRO	C	2	2				
RCXPRPRA	C	20	2				
RCXRCODE	2C		2				
RCXREAD	30	10	2				
RCXREASN	64		2				
RCXRECVR	88		2				
RCXRLLV	34		2				
RCXRTOKN	80		2				
RCXSEQNO	58		2				
RCXSTACS	60	10	2				
RCXSTERA	60	80	2				
RCXSTEVD	60	40	2				
RCXSTWRN	C	10	2				
RCXSTWRO	60	20	2				
RCXTFBLP	5C	80	2				
RCXTFLAG	5C		2				

RDDFL: RACROUTE REQUEST=DEFINE Parameter List (Request Section)

Common Name: Request-specific portion of the RACROUTE REQUEST=DEFINE parameter list

Macro ID: ICHRDDFL

DSECT Name: RDDFLIST

Owning Component: Resource Access Control Facility (SC1BN)

Eye-Catcher ID: None

Storage Attributes: Subpool Determined by caller
Key Determined by caller
Residency Determined by caller

Size: Varies depending on the release parameter specified

Created by: RACROUTE REQUEST=DEFINE macro

Pointed to by: Address of SAFR plus the offset in SAFPRACP

Serialization: None

Function: Maps the request-specific portion of the parameter list passed to the RACROUTE REQUEST=DEFINE routine

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	48	RDDFLIST	RACDEF PARAMETER LIST
0	(0)	ADDRESS	4	RDDFINSW	ADDRESS OF INSTALLATION DATA
0	(0)	UNSIGNED	1	RDDFLENG	LENGTH OF PARAMETER LIST
1	(1)	ADDRESS	3	RDDFINST	INSTALLATION DATA
4	(4)	SIGNED	4	RDDFENTW	ENTITY NAME ADDRESS WORD
4	(4)	UNSIGNED	1	RDDFFLGS	FLAGS BYTE
		11..		RDDFCHGV	TYPE=CHGVOL.
		1...		RDDFTDEL	TYPE=DELETE
		.1..		RDDFTADV	TYPE=ADDVOL
		..1.		RDDFOLDV	OLDVOL SPECIFIED
		...1		RDDFNEWN	NEWNAME SPECIFIED
		.... 1...		RDDF31IN	31-BIT ADDRESS LIST INDICATOR
		.... .1..		RDDFDSTV	DSTYPE=V
		.... ..1.		RDDFMDEL	DSTYPE=M
		.... ...1		RDDFSPEC	SPECIAL=YES
5	(5)	ADDRESS	3	RDDFENT	ENTITY NAME ADDRESS
8	(8)	ADDRESS	4	RDDFOVOL	OLD VOLSER ADDRESS
8	(8)	ADDRESS	4	RDDFNMX	NEWNAMX ADDRESS
8	(8)	ADDRESS	4	RDDFNAM	NEWNAME ADDRESS
12	(C)	ADDRESS	4	RDDFVSER	NEW VOLSER ADDRESS
16	(10)	ADDRESS	4	RDDFCLNW	CLASS NAME ADDRESS
20	(14)	ADDRESS	4	RDDFMENX	MODEL ENTITYX ADDRESS
20	(14)	ADDRESS	4	RDDFMENT	MODEL ENTITY ADDRESS
24	(18)	ADDRESS	4	RDDFMVOL	MODEL VOLSER ADDRESS
28	(1C)	ADDRESS	4	RDDFACEE	ACEE ADDRESS
32	(20)	ADDRESS	4	RDDFUNIT	UNIT INFORMATION ADDRESS
36	(24)	BITSTRING	1	RDDFUACC	UACC FLAGS.
		1...		RDDFALTR	ALTER AUTHORITY.
		.1..		RDDFCNTL	CONTROL AUTHORITY.
		..1.		RDDFUPD	UPDATE AUTHORITY.
		...1		RDDFREAD	READ AUTHORITY.
		.... 1...		RDDFEXEC	EXEC AUTHORITY. (TURNED ON TOGETHER WITH NONE)
		.... .11.		*	RESERVED.
		.... ...1		RDDFNONE	NONE AUTHORITY.
37	(25)	UNSIGNED	1	RDDFLVL	LEVEL VALUE. 00 TO 99.

RDDFL

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
38	(26)	BITSTRING	1	RDDFAUDT	AUDIT FLAGS.
		1... ..		RDDFALL	AUDIT ALL ACCESSES.
		.1.. ..		RDDFSUCC	AUDIT SUCCESSFUL ACCESS.
		..1. ..		RDDFFAIL	AUDIT ACCESSES THAT FAIL.
		...1 ..		RDDFANON	NO AUDITING.
		.... 11..		RDDFQS	SUCCESS QUALIFIER
		.... ..11		RDDFQF	FAILURE QUALIFIER
39	(27)	BITSTRING	1	RDDFFLG2	2ND FLAG BYTE
		1... ..		RDDFRFI	RACFIND PARAMETER GIVEN
		.1.. ..		RDDFRFIY	RACFIND=YES
		..1. ..		RDDFCHKA	CHKAUTH=YES
		...1 ..		RDDFTAPE	DSTYPE=T GIVEN
		.... 1...		RDDFEOS	ERASE=YES GIVEN
		.... .1..		RDDFMGEN	MGENER PARAMETER GIVEN B'0'=ASIS B'1'=YES
		.... ..1.		RDDFWARN	WARNING=YES GIVEN
		.... ...1		RDDFGEN	GENERIC=YES GIVEN
40	(28)	ADDRESS	4	RDDFOWNR	OWNER ADDRESS
44	(2C)	ADDRESS	4	RDDFDATA	INSTALLATION DATA ADDRESS
48	(30)	CHARACTER		RDDFEND	END OF V1.4 LIST

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
48	(30)	STRUCTURE	8	RDDF31	31-BIT-ADDRESS SAF EXTENSION
48	(30)	ADDRESS	4	RDDFIN31	31-BIT INSTALLATION DATA ADDRESS
52	(34)	ADDRESS	4	RDDFENTX	31-BIT ENTITYX NAME ADDRESS
52	(34)	ADDRESS	4	RDDFEN31	31-BIT ENTITY NAME ADDRESS
56	(38)	CHARACTER		RDD31END	END OF 31 BIT LIST

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
56	(38)	STRUCTURE	48	RDDF17	RACF 1.7 PARAMETER LIST EXTENSION
56	(38)	ADDRESS	4	RDDFACC1	ADDRESS OF ACCLVL (1ST)
60	(3C)	ADDRESS	4	RDDFACC2	ADDRESS OF ACCLVL (2ND)
64	(40)	ADDRESS	4	RDDFSLVL	ADDRESS OF SECLVL DATA
68	(44)	ADDRESS	4	RDDFCATG	ADDRESS OF CATEGORY DATA
72	(48)	ADDRESS	4	RDDFEXDT	ADDRESS OF EXPIRATION DATE
76	(4C)	SIGNED	2	RDDFFSEQ	FILESEQ VALUE
78	(4E)	BITSTRING	1	RDDFFLGT	TAPE FLAG BYTE
		11.. ..		RDDFTLBL	TAPELBL SPECIFIED NL=B'01' STD=B'00' BLP=B'10'
		..11 11..		*	RESERVED
		.... ..1.		RDDFEXPX	EXTENDED EXPDT INDICATOR B'1'=EXTENDED EXPDT FORMAT (CCYYDDDF) B'0'=STANDARD EXPDT FORMAT (YYDDDF)
		.... ...1		RDDFEXP	EXPDT/RETPD VALUE B'1'=EXPDT B'0'=RETPD
79	(4F)	BITSTRING	1	RDDFISUR	RACDEF ISSUER FLAG BYTE
		1... ..		RDDFISCM	B'1'=RACF COMMAND ISSUED RACDEF
		.111 111.		*	RESERVED
		.... ...1		RDDFPROP	B'1'=RACDEF ISSUED AS A RESULT OF AUTOMATIC DIRECTION.
80	(50)	ADDRESS	4	RDDFMCLS	ADDRESS OF MCLASS VALUE
84	(54)	ADDRESS	4	RDDFNOTF	ADDRESS OF NOTIFY ID
88	(58)	ADDRESS	4	RDDFSTCL	Address of STORCLAS data
92	(5C)	ADDRESS	4	RDDFMGCL	Address of MGMTCLAS data
96	(60)	ADDRESS	4	RDDFRSOW	Address of RESOWNER data
100	(64)	BITSTRING	1	RDDFENV	ENVIR flags
		1... ..		RDDFVRFY	VERIFY specified
		.1.. ..		RDDFIENX	ENTITYX SPECIFIED
		..1.		RDDFIMEX	MENTX SPECIFIED
		...1 ..		RDDFINMX	NEWMAMX SPECIFIED
101	(65)	UNSIGNED	1	*(3)	RESERVED

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
104	(68)	CHARACTER		RDD17END	END OF V1.7 LIST

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
104	(68)	STRUCTURE	20	RDDF18X	RACF 1.8X PARAMETER LIST EXTENSION
104	(68)	ADDRESS	4	RDDFDDPR	DDNAME POINTER
108	(6C)	ADDRESS	4	RDDFSLAB	POINTER TO SECLABEL
112	(70)	CHARACTER	12	*	UNUSED
124	(7C)	CHARACTER		RDD8XEND	END OF V1.8X

Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
RDDFACC1	38		2	RDDFMGEN	27	04	3
RDDFACC2	3C		2	RDDFMVOL	18		2
RDDFACEE	1C		2	RDDFNEWN	4	10	4
RDDFALL	26	80	3	RDDFNAM	8		4
RDDFALTR	24	80	3	RDDFNMX	8		3
RDDFANON	26	10	3	RDDFNONE	24	01	3
RDDFAUDT	26		2	RDDFNOTF	54		2
RDDFCATG	44		2	RDDFOLDV	4	20	4
RDDFCHGV	4	80	4	RDDFOVOL	8		2
RDDFCHKA	27	20	3	RDDFOWNR	28		2
RDDFCLNW	10		2	RDDFPROP	79	01	3
RDDFCNTL	24	40	3	RDDFQF	26	02	3
RDDFDATA	2C		2	RDDFQS	26	08	3
RDDFDDPR	68		2	RDDFREAD	24	10	3
RDDFDSTV	4	04	4	RDDFRFI	27	80	3
RDDFEND	30		2	RDDFRFIY	27	40	3
RDDFENT	5		3	RDDFRSOW	60		2
RDDFENTW	4		2	RDDFSLAB	6C		2
RDDFENTX	34		2	RDDFSLVL	40		2
RDDFENV	64		2	RDDFSPEC	4	01	4
RDDFEN31	34		3	RDDFSTCL	58		2
RDDFEOS	27	08	3	RDDFSUCC	26	40	3
RDDFEXDT	48		2	RDDFTADV	4	40	5
RDDFEXEC	24	08	3	RDDFTAPE	27	10	3
RDDFEXP	4E	01	3	RDDFTDEL	4	80	5
RDDFEXPX	4E	02	3	RDDFTLBL	4E	80	3
RDDFFAIL	26	20	3	RDDFUACC	24		2
RDDFFLGS	4		3	RDDFUNIT	20		2
RDDFFLGT	4E		2	RDDFUPD	24	20	3
RDDFFLG2	27		2	RDDFVRFY	64	80	3
RDDFFSEQ	4C		2	RDDFVSER	C		2
RDDFGEN	27	01	3	RDDFWARN	27	02	3
RDDFIENX	64	40	3	RDDF17	38		1
RDDFIMEX	64	20	3	RDDF18X	68		1
RDDFINMX	64	10	3	RDDF31	30		1
RDDFINST	1		3	RDDF31IN	4	08	4
RDDFINSW	0		2	RDD17END	68		2
RDDFIN31	30		2	RDD31END	38		2
RDDFISCM	4F	80	3	RDD8XEND	7C		2
RDDFISUR	4F		2				
RDDFLENG	0		3				
RDDFLIST	0		1				
RDDFLVL	25		2				
RDDFMCLS	50		2				
RDDFMDEL	4	02	4				
RDDFMENT	14		3				
RDDFMENX	14		2				
RDDFMGCL	5C		2				

RDXP: RACROUTE REQUEST=DEFINE Exit Parameter List

Common Name: RACROUTE REQUEST=DEFINE exit parameter list
Macro ID: ICHRDXP
DSECT Name: RDXPL
Owning Component: Resource Access Control Facility (XXH00)
Eye-Catcher ID: None
Storage Attributes: Subpool 229
 Key 0
Size: 168 bytes
Created by: RACROUTE REQUEST=DEFINE caller
Pointed to by: R1 at entry to ICHRD01 and ICHRD02
Serialization: None
Function: Contains the list of addresses passed to the RACROUTE REQUEST=DEFINE pre- and postprocessing installation exits

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	ADDRESS	4	RDXLEN	Length address: points to a fullword containing the number of fullwords in this parameter list.
4	(4)	ADDRESS	4	RDXFLAG	Flag byte address: points to a 1-byte area of the following format:
		11..		RDXTYPEV	B'11000000' TYPE field 2 bits - values defined below
		.... ....		RDXDEFIN	B'00000000' TYPE=DEFINE was specified (or assumed).
		.1..		RDXADDVO	B'01000000' TYPE=ADDVOL was specified.
		1...		RDXDELET	B'10000000' TYPE= DELETE was specified.
		11..		RDXCHGVO	B'11000000' TYPE=CHGVOL was specified.
		..1.		RDXOLDVO	B'00100000' OLDVOL=old volume address was specified.
		...1		RDXNEWNA	B'00010000' NEWNAME=new dsn address
		.... 1..		RDXRESV8	B'00001000' Reserved
		.... .1..		RDXDSTYV	B'00000100' DSTYPE=V was specified.
		.... ..1.		RDXDSTYM	B'00000010' DSTYPE=M was specified.
		.... ...1		RDXSPECY	B'00000001' SPECIAL=YES was specified. Multiple flags can be set, for example: TYPE=DEFINE and NEWNAME indicates a rename request.
8	(8)	ADDRESS	4	RDXINSTL	TYPE=ADDVOL and OLDVOL indicates a DASD data set is being extended to a new volume. INSTLN address: points to an area containing the installation parameters. This address is zero if INSTLN was not specified. The INSTLN parameter is not specified by any system modules but is intended for use by installation-written routines that invoke RACDEF to communicate with the RACROUTE REQUEST=DEFINE preprocessing exit routine. If automatic direction of application updates is active, see related field RDXINPTR. If RDXIPROP is on, this RACDEF has been propagated and the data pointed to by RDXINSTL may have been reformatted on the originating system, and will always start with a one-byte length field, followed by data.

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
12	(C)	ADDRESS	4	RDXENTIT	ENTITY address: points to an area containing the resource name. For the DATASET class, this is 44 bytes long. For general resource classes, the length comes from the class descriptor table. The name is left-justified and padded on the right with blanks. (See note at end of map on page 110.)
16	(10)	ADDRESS	4	RDXVORN	OLDVOL or NEWNAME address: points to a 44-byte area containing the old volume serial number (for OLDVOL) or the new data set name (for NEWNAME). This address points to an area containing blanks if the class is not DATASET. (See note at end of map on page 110.)
20	(14)	ADDRESS	4	RDXVSER	VOLSER address: points to a 6-byte area containing the volume serial number when specified for both the DATASET and TAPEVOL classes. Otherwise, this address points to an area containing blanks. (See note at end of map on page 110.)
24	(18)	ADDRESS	4	RDXCLASS	CLASS address: points to an area containing a 1-byte field containing the classname length followed by the entity class name. (See note at end of map on page 110.)
28	(1C)	ADDRESS	4	RDXMENTI	MENTITY address: points to a 44-byte area containing the name of the profile to be modeled. This area contains blanks if MENTITY was not specified. (See note at end of map on page 110.) If supplied by the exit, the MENTITY value must be the name of a DATASET profile. The class of the profile being created can be DATASET or any class defined by a class descriptor. If a DATASET profile is found, the following fields are copied from it to the new profile: access list, level, universal access, owner, installation-defined data, and logging options (auditing flags). This processing occurs only for a DEFINE request without NEWNAME. RACDEF's search for the MENTITY profile starts with a chain of resident profiles pointed to from the ACEEAMP field. Profiles are added to this chain by RACDEF depending on the options set in the flag byte pointed to from offset 36 in the parameter list.
32	(20)	ADDRESS	4	RDXMVSER	MVOLSER address: points to a 6-byte area containing the volume serial number of the data set profile being modeled. This area contains blanks if MVOLSER was not specified or if the class is not DATASET.
36	(24)	ADDRESS	4	RDXFLAGA	Flag byte address: points to a 1-byte area of the following format:
		1...		RDXNDMNS	B'10000000' Continue processing. Treat TYPE=DEFINE and MENTITY not defined to RACF as if MENTITY were not specified.
		.1..		RDXADMCR	B'01000000' Add the MENTITY profile to the chain of profiles pointed to by the ACEEAMP field if the profile is found in the RACF data set.
		..1.		RDXADMCD	B'00100000' Add the MENTITY profile to the chain of profiles pointed to by the ACEEAMP field whether or not the profile is found in the RACF data set. If not found, build a dummy profile with the MENTITY name, MVOLSER value, and not-found indicator.
		...1		RDXADMCN	B'00010000' Add the MENTITY profile to the chain of profiles pointed to by the ACEEAMP field if the profile is not found in the RACF data set. Build a dummy profile with the MENTITY name, MVOLSER value, and not-found indicator.
		.... 1111		RDXRESV7	B'00001111' Reserved.

RDXP

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
40	(28)	ADDRESS	4	RDXCNXPL	Naming conventions address: points to the parameter list of the ICHCNX00 exit. The ICHCNX00 exit, invoked by RACF commands and the IRRUT100 utility, allows an installation to modify or eliminate the RACF DASD data set naming convention. Corresponding processing might be required in the RACROUTE REQUEST=DEFINE preprocessing and postprocessing exits, so a parameter list with similar structure and content is passed to them to allow use of common routines.
44	(2C)	ADDRESS	4	RDXPROFO	Profile options flag bytes address: points to a 3-byte area of the following format:
BYTE 0					
		1... ..		RDXUACCV	B'1000000' Use the UACC value from the installation-supplied profile.
		.1.. ..		RDXLEVLV	B'0100000' Use the LEVEL value from the installation-supplied profile.
		..1. ..		RDXOWNRI	B'0010000' Use the OWNER value from the installation-supplied profile.
		...1 ..		RDXAUDTI	B'0001000' Use the AUDIT value from the installation-supplied profile.
		.... 1..		RDXGLAUD	B'0000100' Use GLOBALAUDIT value from the installation-supplied profile.
		.... .1..		RDXIDATA	B'0000010' Use installation data from the installation-supplied profile.
		.... ..1.		RDXACLST	B'0000001' Use the access list from the installation-supplied profile.
		.... ...1		RDXWRNNG	B'00000001' Use the WARNING value from installation-supplied profile.
BYTE 1					
		1... ..		RDXCATIN	B'1000000' Use the CATEGORY value from the installation-supplied profile.
		.1.. ..		RDXSECLV	B'0100000' Use the SECLEVEL value from the installation-supplied profile.
		..1. ..		RDXEOSCR	B'0010000' Use the ERASE value from the installation-supplied profile.
		...1 ..		RDXNOTFY	B'0001000' Use the NOTIFY value from the installation-supplied profile.
		.... 1..		RDXURETP	B'0000100' Use retention period value from the installation-supplied profile.
		.... .1..		RDXRESFL	B'0000010' Use RESFLAG for TAPEVOL from the installation-supplied profile.
		.... ..1.		RDXLGDAY	B'0000001' Use the terminal logon days from the installation-supplied profile.
		.... ...1		RDXLGTIM	B'00000001' Use the terminal logon times from the installation-supplied profile.
BYTE 2					
		1... ..		RDXLGZON	B'1000000' Use terminal timezone information from the installation-supplied profile.
		.1.. ..		RDXCNDAC	B'0100000' Use conditional access list from the installation-supplied profile.
		..11 1111		RDXPRESV	B'00111111' Reserved

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
48	(30)	ADDRESS	4	RDXPROFA	Installation-supplied profile address: points to a profile in the format of that returned by RACHECK ENTITY=(addr,CSA). The profile options flag byte determines the values used in this profile. (On entry to the preprocessing exit, this address is zero.) If both MENTITY processing and installation-supplied profile processing are requested, values from the MENTITY profile override RACDEF defaults and values specified for use from installation-supplied profile override MENTITY profile values.
52	(34)	ADDRESS	4	RDXACEE	ACEE address: points to a fullword containing the address of an ACEE that will be used for RACDEF processing. If the ACEE parameter was not specified on the RACDEF macro instruction or changed by the exit, the fullword pointed to by this value contains zeroes and RACDEF processing uses the ACEE pointed to by TCBSENV in the current task control block (TCB) or ASXBSENV in the address space extension block (ASXB).
56	(38)	ADDRESS	4	RDXUNIT	UNIT Information address: points to an area prefixed by a one-byte length field that contains the length of the UNIT information. If the length is 4, it is assumed the UNIT information contains the UCB coded information. If the length is 5 to 8 characters, it is assumed the UNIT information contains the generic unit information (such as 3330-1 or SYSDA). If this address value is zero or the length field is zero, it is assumed that UNIT information is absent. (See note at end of map on page 110.)
60	(3C)	ADDRESS	4	RDXUACC	UACC address: points to a one-byte area containing the universal access authority to be placed in the resource profile being defined. (See note at end of map on page 110.) The UACC value has the following format: 1... RDXALTER B'10000000' ALTER authority .1.. RDXCONTR B'01000000' CONTROL authority ..1. RDXUPDAT B'00100000' UPDATE authority ...1 RDXREADA B'00010000' READ authority 111. RDXRESV9 B'00001110' Reserved. .... ...1 RDXNONEA B'00000001' NONE authority
64	(40)	ADDRESS	4	RDXLEVEL	LEVEL address: points to a one-byte area containing the level value to be placed in the new resource profile. This value must be in the range of 00 to 99.
68	(44)	ADDRESS	4	RDXAUDIT	AUDIT address: points to a one-byte area containing the audit flags to be placed in the new resource profile. The AUDIT flag area has the following format: 1... RDXAUACC B'10000000' Audit all accesses. .1.. RDXAUSAC B'01000000' Audit all successful accesses. ..1. RDXAUAAF B'00100000' Audit all access attempts that fail. ...1 RDXNOAUD B'00010000' No auditing. 11.. RDXQSUC B'00001100' Qualifier for successful access attempts. The qualifier is of the following format: 00-READ, 01-UPDATE, 10-CONTROL, 11-ALTER .... ..11 RDXQFAIL B'00000011' Qualifier for unsuccessful access attempts. The qualifier is of the following format: 00-READ, 01-UPDATE, 10-CONTROL, 11-ALTER RDXSREAD B'00000000' Successful READ .... .1.. RDXSUPDA B'00000100' Successful UPDATE 1... RDXSCONT B'00001000' Successful CONTROL 11.. RDXSALTE B'00001100' Successful ALTER RDXUREAD B'00000000' Unsuccessful READ .... ...1 RDXUUPDA B'00000001' Unsuccessful UPDATE .... ..1. RDXUCONT B'00000010' Unsuccessful CONTROL .... ..11 RDXUALTE B'00000011' Unsuccessful ALTER

RDXP

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
72	(48)	ADDRESS	4	RDXOWNER	OWNER address: points to an eight-byte area containing the owner name to be placed in the new resource profile. This owner name must be a RACF-defined userid or group name. If there is no owner, this field contains blanks or zeroes to indicate the information is absent.
76	(4C)	ADDRESS	4	RDXDATA	DATA address: points to a variable length area of the following format: Offset 0, length 1: Length of data information. Offset 1, variable length: data information.
80	(50)	ADDRESS	4	RDXFLAG2	Flag Byte 2 Address: points to a 1-byte area of the following format. (See note at end of map on page 110.)
		.... ....		RDXRFDNS	B'00000000' 00.. RACFIND was not specified.
		1...		RDXRFDNO	B'10000000' 10.. RACFIND=NO was specified.
		11..		RDXRFDYS	B'11000000' 11.. RACFIND=YES was specified.
		..1.		RDXCKAYS	B'00100000' ..1. CHKAUTH=YES was specified.
		...1		RDXDSTYT	B'00010000' ...1 DSTYPE=TAPE was specified.
		.... 1...		RDXERAYS	B'00001000' 1... ERASE=YES was specified.
		.... ....		RDXMGNAI	B'00000000' 0.. MGENER=ASIS was specified.
		.... .1..		RDXMGNYS	B'00000100' .... .1.. MGENER=YES was specified.
		.... ..1.		RDXWNGYS	B'00000010' .... ..1. WARNING=YES was specified.
		.... ...1		RDXGNRCY	B'00000001' .... ...1 GENERIC=YES was specified.
84	(54)	ADDRESS	4	RDXCOMP	Completion code address: points to a 4-byte field containing the ABEND code that RACDEF is going to issue. The completion code is contained in the low-order 12 bits of the field. The address points to an area containing zeroes if RACDEF is not going to issue an ABEND. (If ABEND processing is to be bypassed by RACDEF, the exit routine can zero the completion code. In this case, the exit routine should also set the return code to zero; otherwise, the ABEND reason code will be passed to the RACDEF caller as a return code.) Do not confuse an ABEND issued by RACDEF with one issued by an invoker of RACDEF. If a user is not authorized to a resource, RACDEF will not issue an ABEND, but the invoker of RACDEF might. For example, OPEN might issue a 913 ABEND in this case, although RACDEF completed without any ABEND.
88	(58)	ADDRESS	4	RDXRCODE	Return code address: points to a 4-byte field containing either: <ol style="list-style-type: none"> the return code to be passed back to the RACDEF caller in response to the define request. For the meanings of these return codes, see <i>OS/390 Security Server External Security Interface (RACROUTE) Macro Reference</i>. the reason code used to cause the ABEND to be issued. For meanings of these ABEND reason codes, see <i>OS/390 Security Server (RACF) Messages and Codes</i>. <p>Note: Do not confuse this code with the return code from the RACROUTE REQUEST=DEFINE preprocessing and postprocessing exits described in <i>OS/390 Security Server (RACF) System Programmer's Guide</i>.</p>
92	(5C)	ADDRESS	4	RDXREAS	Reason code address: points to a 4-byte field containing the reason code to be passed back to the RACDEF caller in response to the define request (for the meanings of these reason codes, see <i>OS/390 Security Server External Security Interface (RACROUTE) Macro Reference</i>).

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
96	(60)	ADDRESS	4	RDXWA	Exit work area: points to a fullword of zeroes on the initial entry to the preprocessing routine. An installation can use this field for any purpose. Because this field is set to zeroes before entry to the preprocessing exit, the preprocessing and postprocessing exits can use this work area to communicate with each other.
100	(64)	ADDRESS	4	RDXFLAG3	Third flag byte: points to a 1-byte area of the following format: B'00000000' 00.. TAPELBL=STD was specified. B'01000000' 01.. TAPELBL=NL was specified. B'10000000' 10.. TAPELBL=BLP was specified.
104	(68)	ADDRESS	4	RDXACCLV	Address of ACCLVL value: points to a 1-byte length field followed by 0 to 8 bytes of data specified by the first subparameter of the ACCLVL parameter on the RACDEF or RACROUTE REQUEST=DEFINE macro.
108	(6C)	ADDRESS	4	RDXACCLP	Address of ACCLVL parameter: points to the parameter list passed as the second subparameter of the ACCLVL keyword on the RACDEF or RACROUTE REQUEST=DEFINE macro. If automatic direction of application updates is active, see related field RDXACPTR. If RDXIPROP is on, this RACDEF has been propagated and the data pointed to by RDXACCLP may have been reformatted on the originating system, and will always start with a one byte length, followed by data.
112	(70)	ADDRESS	4	RDXSECLP	Address of SECLVL parameter: points to a fullword count field followed by the same number of security level (SECLVL) values (currently either 0 or 1). This security level is the same as the numeric part of the installation-defined security level.
116	(74)	ADDRESS	4	RDXCATEG	Address of CATEGORY parameter: points to a fullword count field followed by the same number of binary halfword category values. Each category value identifies an installation-defined value.
120	(78)	ADDRESS	4	RDXSEQNO	Address of file sequence number: points to a 2-byte field containing the file sequence number for a tape data set
124	(7C)	ADDRESS	4	RDXRETPD	Address of security retention period: points to a 2 byte field containing the retention period.
128	(80)	ADDRESS	4	RDXISSUR	Address of a 1-byte flag which indicates whether the RACDEF was issued by a command or was propagated by automatic direction: RACDEF issued by a command processor. Reserved.
132	(84)	ADDRESS	4	RDXICMND RDXIRESV RDXIPROP RDXNOTIF	RACDEF issued as a result of automatic direction. Address of NOTIFY userid: points to an 8-byte area containing the userid of the user to be notified when RACF detects an unauthorized attempt to access a resource protected by this profile.
136	(88)	ADDRESS	4	RDXMCLAS	Address of a 1-byte length field followed by a 1 to 8 byte field containing the class of the model entity pointed to by RDXMENTI.
140	(8C)	ADDRESS	4	RDXSTCLA	Address of storage class: points to a 2 byte length followed by a 1 to 8 byte storage class name.
144	(90)	ADDRESS	4	RDXMGCLA	Address of management class: points to a 2 byte length followed by a 1 to 8 byte management class name.
148	(94)	ADDRESS	4	RDXRESOW	Address of resource owner: points to a 2 byte length followed by a 1 to 8 byte resource owner name.
152	(98)	ADDRESS	4	RDXENVIR	Address of a 1-byte flag which indicates what ENVIR was coded. B'10000000' 1... ENVIR=VERIFY coded. B'01111111' .111 1111 Reserved.
		1...111 1111		RDXEVRFY RDXERESV	

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Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
156	(9C)	ADDRESS	4	RDXDDNAM	Address of DDNAME: points to an 8-byte area containing the ddname associated with the dataset name specified as the ENTITY name, or 8 blanks if DDNAME was not specified.
160	(A0)	ADDRESS	4	RDXSLABL	Address of SECLABL; points to an eight byte field which contains the security label.
164	(A4)	ADDRESS	4	RDXINPTR	Address of INSTLN data to be propagated: If INSTLN was specified, and RDXIPROP is off indicating that this is the originating system, this address points to a 256 byte field containing binary zeros. If automatic direction of application updates is active, and INSTLN is to be propagated, the exit must set the first byte of this area to the length of the data, followed by the data. If INSTLN contains pointers, the data pointed to must be moved to this field. The area pointed to by this field will be sent to the remote system as INSTLN. If RDXIPROP is on, or RDXINSTL is zero, RDXINPTR will be zero.
168	(A8)	ADDRESS	4	RDXACPTR	Address of ACCLVL parameter data to be propagated: If the second subparameter of the ACCLVL keyword was specified, and RDXIPROP is off indicating that this is the originating system, this address points to a 256-byte field containing binary zeros. If automatic direction of application updates is active, and the ACCLVL parameter data is to be propagated, the exit must set the first byte of this area to the length of the data, followed by the data. If the data contains pointers, the data pointed to must be moved to this field. The area pointed to by this field will be sent to the remote system as the second subparameter of the ACCLVL keyword. If RDXIPROP is on or RDXACCLP is zero, RDXACPTR will be zero.

Note: If the exit changes this value, the RACF profile being processed is changed, but RACF does not communicate the change to the invoker of RACDEF. For example, if a data set is being defined to RACF and the exit changes the entity value, the RACF profile defined will show the data set itself is unchanged. Similar processing applies to the OLDVOL, NEWNAME, VOLSER, UNIT, UACC, LEVEL, AUDIT, OWNER, DATA, and CLASS parameters.

Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
RDXACCLP	6C		2	RDXCNDAC	2C	40	2
RDXACCLV	68		2	RDXCNXPL	28		2
RDXACEE	34		2	RDXCOMP	54		2
RDXACLST	2C	2	2	RDXCONTR	3C	40	2
RDXACPTR	A8	4	2	RDXDATA	4C		2
RDXADDVO	4	40	2	RDXDDNAM	9C		2
RDXADMCD	24	20	2	RDXDEFIN	4	0	2
RDXADM CN	24	10	2	RDXDELET	4	80	2
RDXADMCR	24	40	2	RDXDSTYM	4	2	2
RDXALTER	3C	80	2	RDXDSTYT	50	10	2
RDXAUAAF	44	20	2	RDXDSTYV	4	4	2
RDXAUACC	44	80	2	RDXENTIT	C		2
RDXAUDIT	44		2	RDXENVIR	98		2
RDXAUDTI	2C	10	2	RDXEOSCR	2C	20	2
RDXAUSAC	44	40	2	RDXERAYS	50	8	2
RDXCATEG	74		2	RDXERESV	98	7F	2
RDXCATIN	2C	80	2	RDXEVRFY	98	80	2
RDXCHGVO	4	C0	2	RDXFLAG	4		2
RDXCKAYS	50	20	2	RDXFLAGA	24		2
RDXCLASS	18		2	RDXFLAG2	50		2

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
RDXFLAG3	64		2	RDXUCONT	44	2	2
RDXGLAUD	2C	8	2	RDXUNIT	38		2
RDXGNRCY	50	1	2	RDXUPDAT	3C	20	2
RDXICMND	80	80	2	RDXUREAD	44	0	2
RDXIDATA	2C	4	2	RDXURETP	2C	8	2
RDXINSTL	8		2	RDXUUPDA	44	1	2
RDXINPTR	A4	4	2	RDXVORN	10		2
RDXIPROP	80	1	2	RDXVSER	14		2
RDXIRESV	80	7E	2	RDXWA	60		2
RDXISSUR	80		2	RDXWNGYS	50	2	2
RDXLEN	0		2	RDXWRNNG	2C	1	2
RDXLEVEL	40		2				
RDXLEVLV	2C	40	2				
RDXLGDAY	2C	2	2				
RDXLGTIM	2C	1	2				
RDXLGZON	2C	80	2				
RDXMCLAS	88		2				
RDXMENTI	1C		2				
RDXMGCLA	90		2				
RDXMGNAI	50	0	2				
RDXMGNYS	50	4	2				
RDXMVSER	20		2				
RDXNDMNS	24	80	2				
RDXNEWNA	4	10	2				
RDXNOAUD	44	10	2				
RDXNONEA	3C	1	2				
RDXNOTFY	2C	10	2				
RDXNOTIF	84		2				
RDXOLDVO	4	20	2				
RDXOWNER	48		2				
RDXOWNRI	2C	20	2				
RDXPRESV	2C	3F	2				
RDXPROFA	30		2				
RDXPROFO	2C		2				
RDXQFAIL	44	3	2				
RDXQSUCC	44	C	2				
RDXRCODE	58		2				
RDXREADA	3C	10	2				
RDXREAS	5C		2				
RDXRESFL	2C	4	2				
RDXRESOW	94		2				
RDXRESV7	24	F	2				
RDXRESV8	4	8	2				
RDXRESV9	3C	E	2				
RDXRETPD	7C		2				
RDXRFDNO	50	80	2				
RDXRFDNS	50	0	2				
RDXRFDYS	50	C0	2				
RDXSALTE	44	C	2				
RDXSCONT	44	8	2				
RDXSECLP	70		2				
RDXSECLV	2C	40	2				
RDXSEQNO	78		2				
RDXSLABL	A0		2				
RDXSPECY	4	1	2				
RDXSREAD	44	0	2				
RDXSTCLA	8C		2				
RDXSUPDA	44	4	2				
RDXTLBLP	64	80	2				
RDXTLNL	64	40	2				
RDXTLSTD	64	0	2				
RDXTYPEV	4	C0	2				
RDXUACC	3C		2				
RDXUACCV	2C	80	2				
RDXUALTE	44	3	2				

RFXP: RACROUTE REQUEST=FASTAUTH Exit Parameter List

Common Name: RACROUTE REQUEST=FASTAUTH exit parameter list
Macro ID: ICHRFXP
DSECT Name: RFXPL
Owning Component: Resource Access Control Facility (XXH00)
Eye-Catcher ID: None
Storage Attributes: Subpool Determined by caller
 Key Determined by caller
Size: Variable
Created by: RACROUTE REQUEST=FASTAUTH caller
Pointed to by: R1 at entry to RACROUTE REQUEST=FASTAUTH
Serialization: None
Function: Contains the list of addresses passed to the RACROUTE REQUEST=FASTAUTH pre- and postprocessing installation exits ICHRFX01 and ICHRFX02

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	BITSTRING	1	RFXFLAGS	Authority flags: contains the requested access authority. Access authority requested is: X'02' - READ, X'04' - UPDATE, X'08' - CONTROL, and X'80' - ALTER. Note: These bit mappings are identical to the bit mappings for the RACHECK ATTR parameter pointed to by RCXFLAG2 at offset 8 in the RACROUTE REQUEST=AUTH preprocessing and postprocessing exit parameter list. See data area RCXP.
		.... ..1. .... .1.. 1... 1... ..		RFXREAD RFXUPDAT RFXCONTR RFXALTER	
1	(1)	BITSTRING	1	RFXFLAG2	LOG flags: contains the types of access attempts to be recorded. LOG values are: X'80' - ASIS, X'40' - NOFAIL. X'20' - ENTITYX specified. If on, RFXENTIT points to a name in ENTITYX format.
		1... .. .1... .. ..1... ..		RFXASIS RFXNFAIL RFXNENTX	
2	(2)	FIXED	1	RFXPLEN	Parameter List Length: 28 - OS/390 Security Server R3 or earlier 36 - OS/390 Security Server R4 40 - OS/390 Security Server R6
3	(3)	HEX	1	RFXPVERS	Parameter List Version: 0 - OS/390 Security Server R3 or earlier 1 - OS/390 Security Server R4 2 - OS/390 Security Server R6
4	(4)	ADDRESS	4	RFXENTIT	For ENTITY (RFXNENTX=off), points to a field as the maximum length name of the given class, as determined by the class descriptor table. Names in the field are left-justified and padded with blanks if necessary. For ENTITYX (RFXNENTX=on), points to a halfword buffer length followed by a halfword actual length of the resource name not including trailing blanks. If the actual length is zero, then RACF determines the number of characters in the entity name.

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
8	(8)	ADDRESS	4	RFXCLASS	CLASS name address: points to an 8-byte field containing the class name; the name is left-justified and padded with blanks if necessary.
12	(C)	ADDRESS	4	RFXACEE	ACEE address: points to the ACEE that RACF uses for authorization checking. If this address is 0, RACF will use the ACEE pointed to by TCBSENV in the current task control block (TCB) or ASXBSENV in the address space extension block (ASXB).
16	(10)	ADDRESS	4	RFXAPPL	APPL name address: points to an 8-byte field containing the name of the application requesting authorization checking. This name is left-justified and padded with blanks if necessary. If no application name is specified, the address is 0.
20	(14)	ADDRESS	4	RFXWA	WKAREA address: points to 16 fullwords of storage; the exit can use the first 15 fullwords. Because the RACROUTE REQUEST=FASTAUTH preprocessing exit cannot issue SVCs, this area is intended to be used by the exit as a work area or register save area.
24	(18)	ADDRESS	4	RFXANSTL	INSTLN address: points to the value specified on the INSTLN parameter on the FRACHECK macro instruction. If the INSTLN parameter was not specified, the address is 0. No system modules specify the INSTLN parameter; it is intended for use by installation-written routines that invoke FRACHECK to communicate with the RACROUTE REQUEST=FASTAUTH preprocessing exit routine.
28	(1C)	ADDRESS	4	RFXALET	ACEEALET address: If nonzero, it points to a fullword ALET value to be used when referencing an ACEE in another address space. This address is always zero for ICHRF01 and ICHRF02. This field is only present when RFXPVERS is 1 or higher.
32	(20)	ADDRESS	4	RFXLOGS	LOGSTR address: If nonzero, it points to a 1-byte length field followed by character data that can be from 0 to 255 bytes long. This field is only present when RFXPVERS is 1 or higher.
36	(24)	ADDRESS	4	RFXPENVR	ENVR address: If nonzero, it points to an area containing a data structure to be used for authority checking. This field is only present if RFXPVERS is 2 or higher.

Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
RFXACEE	C		2	RFXWA	14		2
RFXALET	1C		2				
RFXALTER	0	80	2				
RFXANSTL	18		2				
RFXAPPL	10		2				
RFXASIS	1	80	2				
RFXCLASS	8		2				
RFXCONTR	0	8	2				
RFXENTIT	4		2				
RFXFLAGS	0		2				
RFXFLAG2	1		2				
RFXLOGS	20		2				
RFXNENTX	1	20	2				
RFXNFAIL	1	40	2				
RFXPENVR	24		2				
RFXPLEN	2		2				
RFXPVERS	3		2				
RFXREAD	0	2	2				
RFXUPDAT	0	4	2				

RIPL: RACROUTE REQUEST=TOKENBLD/VERIFY/VERIFYX Parameter List (Request Section)

Common Name: Request-specific portion of the RACROUTE REQUEST=TOKENBLD, VERIFY, or VERIFYX parameter list

Macro ID: IRRPRIPL

DSECT Name: INITPARM

Owning Component: Resource Access Control Facility (SC1BN)

Eye-Catcher ID: None

Storage Attributes: Subpool Determined by caller
 Key Determined by caller
 Residency Determined by caller

Size: Varies depending on release and function

Created by: RACROUTE REQUEST=TOKENBLD, VERIFY, or VERIFYX macro

Pointed to by: Address of SAFP plus offset in SAFPRACP

Serialization: None

Function: Maps the request-specific portion of the parameter list passed to the RACROUTE REQUEST=TOKENBLD, VERIFY, or VERIFYX routine

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE		INITPARM	RACINIT INPUT SVC PARMLIST MAP
0	(0)	ADDRESS	1	INITLEN	PARM LIST LENGTH (28)
1	(1)	UNSIGNED	1	INITSUB#	SUBPOOL FOR ACEE STORAGE
2	(2)	BITSTRING	1	INITFLG0	FLAG BYTE 0
		1... ..		INITBLW	1 => LOC=BELOW SPECIFIED
		.1.. ..		INITANY	1 => LOC=ANY SPECIFIED
		..1.		INITPRAL	VERIFYX INTERNAL PROPAGATION
		...1		INITVFX	RACINIT VERIFYX INDICATOR
		.... 1...		INITSYSN	1 - PARAMETER SPECIFIED THAT IS NOT COMPATIBLE WITH SYSTEM=YES
		.... .1..		INITNLOG	1 - LOG=NONE SPECIFIED
		.... ..11		*	RESERVED
3	(3)	BITSTRING	1	INITFLG1	FLAG BYTE 1
		11..		INITENVR	ENVIR - 00 CREATE, 01 CHANGE, 10 DELETE, 11 VERIFY
		..1.		INITNSMC	1 => NO STEP MUST COMPLETE
		...1		INITSUBS	SUBPOOL VALUE SPECIFIED
		.... 1...		INITPCHK	1 => NO PASSWORD PROCESSING TO BE PERFORMED
		.... .1..		INITNSTA	1 => STAT=NO SPECIFIED
		.... ..1.		INITULOG	1 => LOG=ALL SPECIFIED
		.... ...1		INITENCR	1 => ENCRYPT=NO SPECIFIED
4	(4)	ADDRESS	4	INITUPTR	ADDRESS OF USERID BUFFER
8	(8)	ADDRESS	4	INITPPTR	ADDRESS OF PASSWORD BUFFER
12	(C)	ADDRESS	4	INITSPTR	ADDRESS OF START PROC NAME
16	(10)	ADDRESS	4	INITIPTR	ADDRESS OF INSTALLATION INFORMATION
20	(14)	ADDRESS	4	INITGPTR	ADDRESS OF GROUP NAME BUFFER
24	(18)	ADDRESS	4	INITNPTR	ADDRESS OF NEW PASSWORD BUFFER
28	(1C)	CHARACTER		INITEND1	END PART1

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
28	(1C)	STRUCTURE	20	INITPRM2	VERSION 1 RELEASE 2
28	(1C)	ADDRESS	4	INITPGRP	ADDRESS OF PROGRAMMER NAME BUFFER
32	(20)	ADDRESS	4	INITACCP	ADDRESS OF ACCOUNT NUMBER BUFFER
36	(24)	ADDRESS	4	INITOIDP	ADDRESS OF MAGNETIC STRIPE CARD BUFFER
40	(28)	ADDRESS	4	INITTRMP	ADDRESS OF TERMINAL ID BUFFER
44	(2C)	ADDRESS	4	INITJOBP	ADDRESS OF JOB NAME
48	(30)	CHARACTER		INITEND2	END PART2

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
48	(30)	STRUCTURE	8	INITPRM3	VERSION 1 RELEASE 3
48	(30)	ADDRESS	4	INITAPPP	ADDRESS APPLICATION NAME
52	(34)	ADDRESS	4	INITACEP	ADDRESS ACEE ANCHOR
56	(38)	CHARACTER		INITEND3	END PART3

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
56	(38)	STRUCTURE	44	INITPRM4	RELEASE 1.9
56	(38)	UNSIGNED	1	INITSESN	SESSION TYPE - SEE TOKEN MAP FOR SPECIFIC VALUES
57	(39)	BITSTRING	1	INITFLG2	WORK UNIT IDENTITY FLAGS
		1...		INITRS	PART OF TRUSTED COMP BASE
		.1..		INITRMT	THIS JOB FROM REMOTE NODE
		..1.		INITRSSP	TRUSTED KEYWORD SPECIFIED
		...1		INITRMSP	REMOTE KEYWORD SPECIFIED
		.... 1111		*	RESERVED
58	(3A)	SIGNED	2	*	RESERVED
60	(3C)	ADDRESS	4	INITSLBP	SECLABL ADDRESS
64	(40)	ADDRESS	4	INITXNDP	EXENODE ADDRESS
68	(44)	ADDRESS	4	INITSIDP	SUSERID ADDRESS
72	(48)	ADDRESS	4	INITSNDP	SNODE ADDRESS
76	(4C)	ADDRESS	4	INITSGPP	SGROUP ADDRESS
80	(50)	ADDRESS	4	INITPOEP	POE ADDRESS
84	(54)	ADDRESS	4	INITUTKP	INPUT TOKEN ADDRESS
88	(58)	ADDRESS	4	INITSTKP	TOKEN ADDRESS
92	(5C)	ADDRESS	4	INITLSRP	LOGSTR ADDRESS
96	(60)	ADDRESS	4	INITOTKP	OUTPUT TOKEN ADDRESS
100	(64)	CHARACTER		INITEND4	END OF 1.9 PLIST

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
100	(64)	STRUCTURE	8	INITPRM5	RELEASE 1.9.2
100	(64)	ADDRESS	4	INITENVI	ENVRIN ADDRESS
104	(68)	ADDRESS	4	INITENVO	ENVROUT ADDRESS
108	(6C)	CHARACTER		INITEND5	END OF 1.9.2 PLIST

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
108	(6C)	STRUCTURE	8	INITPRM6	RELEASE 2.6
108	(6C)	ADDRESS	4	INITPNP	POE NETWORK NAME ADDRESS
112	(70)	ADDRESS	4	INITEND6	END OF 2.6

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	9	INITUSR	USERID BUFFER

RIPL

Offsets			Len		
Dec	Hex	Type		Name (Dim)	Description
0	(0)	ADDRESS	1	INITUSRL	USERID LENGTH
1	(1)	CHARACTER	8	INITUSRI	USERID

Offsets			Len		
Dec	Hex	Type		Name (Dim)	Description
0	(0)	STRUCTURE	9	INITPAS	PASSWORD BUFFER
0	(0)	ADDRESS	1	INITPASL	PASSWORD LENGTH
1	(1)	CHARACTER	8	INITPASS	PASSWORD

Offsets			Len		
Dec	Hex	Type		Name (Dim)	Description
0	(0)	STRUCTURE	9	INITGRP	GROUP NAME BUFFER
0	(0)	ADDRESS	1	INITGRPL	GROUP NAME LENGTH
1	(1)	CHARACTER	8	INITGRPN	GROUP NAME

Offsets			Len		
Dec	Hex	Type		Name (Dim)	Description
0	(0)	STRUCTURE	9	INITNPA	NEW PASSWORD BUFFER
0	(0)	ADDRESS	1	INITNPAL	NEW PASSWORD LENGTH
1	(1)	CHARACTER	8	INITNPAS	NEW PASSWORD

Offsets			Len		
Dec	Hex	Type		Name (Dim)	Description
0	(0)	STRUCTURE	256	INITOIDB	OID BUFFER
0	(0)	ADDRESS	1	INITOIDL	OID LENGTH
1	(1)	CHARACTER	255	INITOID	OID VALUE

Offsets			Len		
Dec	Hex	Type		Name (Dim)	Description
0	(0)	STRUCTURE	9	INITENOD	EXECUTION NODE KEYWORD
0	(0)	UNSIGNED	1	INITENLN	LENGTH OF EXEC NODE DATA
1	(1)	CHARACTER	8	INITENNM	NAME OF EXECUTION NODE

Offsets			Len		
Dec	Hex	Type		Name (Dim)	Description
0	(0)	STRUCTURE	9	INITSUID	SUBMITTERS USERID KEYWORD
0	(0)	UNSIGNED	1	INITSILN	LENGTH OF SUBMIT USERID
1	(1)	CHARACTER	8	INITSINM	NAME OF SUBMITTER'S ID

Offsets			Len		
Dec	Hex	Type		Name (Dim)	Description
0	(0)	STRUCTURE	9	INITSNOD	SUBMITTER'S NODE KEYWORD
0	(0)	UNSIGNED	1	INITSNLN	SUBMIT NODE DATA LENGTH
1	(1)	CHARACTER	8	INITSNNM	NAME OF SUBMITTER'S NODE

Offsets			Len		
Dec	Hex	Type		Name (Dim)	Description
0	(0)	STRUCTURE	9	INITSGRP	SUBMITTER'S GROUP KEYWORD
0	(0)	UNSIGNED	1	INITSGLN	SUBMIT GROUP DATA LENGTH
1	(1)	CHARACTER	8	INITSGNM	NAME OF SUBMIT GROUP

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	256	INITLGST	LOG STRING KEYWORD MAP
0	(0)	UNSIGNED	1	INITLSLN	LENGTH OF LOG STRING DATA
1	(1)	CHARACTER	255	INITLGSD	LOG STRING DATA

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	14	INITENV	ENVR OBJECT DATA STRUCTURE
0	(0)	UNSIGNED	4	INITELEN	ENVR OBJECT LENGTH
4	(4)	UNSIGNED	4	INITESLN	ENVR OBJECT STORAGE AREA LENGTH
8	(8)	ADDRESS	4	INITESAD	ENVR OBJECT STORAGE AREA ADDRESS
12	(C)	UNSIGNED	1	INITESSP	ENVR OBJECT STORAGE AREA SUBPOOL
13	(D)	UNSIGNED	1	INITESKY	ENVR OBJECT STORAGE AREA KEY

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	*	INITPON	POE NETWORK NAME KEYWORD
0	(0)	ADDRESS	1	INITPONL	NETWORK NAME LENGTH
1	(1)	CHARACTER	*	INITPOEN	NETWORK NAME

Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
INITACCP	20		2	INITLSRP	5C		2
INITACEP	34		2	INITNLOG	2	04	3
INITANY	2	40	3	INITNPA	0		1
INITAPPP	30		2	INITNPAL	0		2
INITBLW	2	80	3	INITNPAS	1		2
INITELEN	0		2	INITNPTR	18		2
INITENCR	3	01	3	INITNSMC	3	20	3
INITEND1	1C		2	INITNSTA	3	04	3
INITEND2	30		2	INITOID	1		2
INITEND3	38		2	INITOIDB	0		1
INITEND4	64		2	INITOIDL	0		2
INITEND5	6C		2	INITOIDP	24		2
INITEND6	70		2	INITOTKP	60		2
INITENLN	0		2	INITPARM	0		1
INITENNM	1		2	INITPAS	0		1
INITENOD	0		1	INITPASL	0		2
INITENV	0		1	INITPASS	1		2
INITENVI	64		2	INITPCHK	3	08	3
INITENVO	68		2	INITPGRP	1C		2
INITENVR	3	80	3	INITPOEN	1		2
INITESAD	8		2	INITPOEP	50		2
INITESKY	D		2	INITPON	0		1
INITESLN	4		2	INITPONL	0		2
INITESSP	C		2	INITPNP	6C		2
INITFLG0	2		2	INITPPTR	8		2
INITFLG1	3		2	INITPRAL	2	20	3
INITFLG2	39		2	INITPRM2	1C		1
INITGPTR	14		2	INITPRM3	30		1
INITGRP	0		1	INITPRM4	38		1
INITGRPL	0		2	INITPRM5	64		1
INITGRPN	1		2	INITPRM6	6C		1
INITIPTR	10		2	INITRMSP	39	10	3
INITJOBP	5C		2	INITRMT	39	40	3
INITLEN	0		2	INITRSS	39	80	3
INITLGSD	1		2	INITRSSP	39	20	3
INITLGST	0		1	INITSESN	38		2
INITLSLN	0		2	INITSGLN	0		2

RIPL

Name	Hex Offset	Hex Value	Level
INITSGNM	1		2
INITSGPP	4C		2
INITSGRP	0		1
INITSIDP	44		2
INITSILN	0		2
INITSINM	1		2
INITSLBP	3C		2
INITSNDP	48		2
INITSNLN	0		2
INITSNNM	1		2
INITSNOD	0		1
INITSPTR	C		2
INITSTKP	58		2
INITSUB#	1		2
INITSUBS	3	10	3
INITSUID	0		1
INITSYSN	2	08	3
INITTRMP	28		2
INITULOG	3	02	3
INITUPTR	4		2
INITUSR	0		1
INITUSRI	1		2
INITUSRL	0		2
INITUTKP	54		2
INITVFYX	2	10	3
INITXNDP	40		2

RIXP: RACROUTE REQUEST=VERIFY/VERIFYX Exit Parameter List

Common Name: RACROUTE REQUEST=VERIFY or VERIFYX exit parameter list mapping
Macro ID: ICHRIXP
DSECT Name: RIXPL
Owning Component: Resource Access Control Facility (XXH00)
Eye-Catcher ID: None
Storage Attributes: Subpool 229
 Key 0
Size: 172 bytes
Created by: RACROUTE REQUEST=VERIFY or VERIFYX processing
Pointed to by: R1 at entry to ICHRIX01 and ICHRIX02
Serialization: None
Function: Contains the list of addresses passed to RACROUTE REQUEST=VERIFY or VERIFYX pre- and postprocessing installation exits

Note: If you are using VLF ACEE caching, be aware that some information normally retrieved from the profile and put into the RIXP parameter list is not available when an ACEE is retrieved from the cache, since this would create a performance impact that would negate the VLF performance enhancement. Therefore, an indicator (RIXCACHE) is set on to indicate that this invocation represents a call using VLF cached data. If you find that a RIXP parameter is zero, you should check the ACEE for the data if the RIXCACHE indicator is on.

Offsets			Len	Name (Dim)	Description
Dec	Hex	Type			
0	(0)	STRUCTURE		RIXPL	
0	(0)	ADDRESS	4	RIXLEN	Length address: points to a fullword containing the number of fullwords in this parameter list.
4	(4)	ADDRESS	4	RIXFLAG	Flag byte address: points to a 1-byte area of the following format:
		.... ....		RIXENVCR	B'00000000' 00.. ENVIR=CREATE was specified (or assumed).
		.1..		RIXENVCH	B'01000000' 01.. ENVIR=CHANGE was specified.
		1...		RIXENVDE	B'10000000' 10.. ENVIR=DELETE was specified.
		.... ....		RIXSMCYS	B'00000000' ..0. SMC=YES was specified.
		..1.		RIXSMCNO	B'00100000' ..1. SMC=NO was specified.
		...1		RIXSUBPP	B'00010000' ...1 SUBPOOL parameter specified.
		.... ....		RIXPSCKY	B'00000000' 0... PASSCHK=YES was specified.
		.... 1...		RIXPSCKN	B'00001000' 1... PASSCHK=NO was specified (bypass password checking). Both the preprocessing and postprocessing exit can set this option. This option causes RACINIT to: - Bypass checking that the old password is correct and has not expired - Bypass checking that the new password is valid - Bypass updating the old password with the new - Bypass incrementing the password revoke count or resetting it to zero If PASSCHK=NO, the postprocessing exit must issue a return code of 4 to re-invoke the RACINIT function to allow the option to take effect. An installation can use this procedure to bypass enforcing password expiration.
		.... .1..		RIXSTANO	B'00000100' .... .1.. STAT=NO was specified.
		.... ..1.		RIXLOGAL	B'00000010' .... ..1. LOG=ALL was specified.
		.... ...1		RIXENCNO	B'00000001' .... ...1 ENCRYPT=NO was specified.

RIXP

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
8	(8)	ADDRESS	4	RIXUID	USERID address: points to an area of the following format: Offset 0, length 1: Length of user identification. Offset 1, length 8: User identification. If the user ID is less than 8 characters in length, the remainder of the field should be filled with blanks. If no user ID was supplied, the length is zero and the value is blanks, so that an exit routine can supply a value. If a started procedure name was supplied, then the user ID might have come from the started procedure table (ICHRIN03). For information about ICHRIN03, see <i>OS/390 Security Server (RACF) System Programmer's Guide</i> .
12	(C)	ADDRESS	4	RIXPWD	PASSWORD address: points to an area of the following format: Offset 0, length 1: Length of password. Offset 1, length 8: Password. If ENCRYPT=NO was specified, the password is treated as if it were already encrypted. If no password was supplied, the length is zero and the value is blanks, so that an exit routine can supply a value.
16	(10)	ADDRESS	4	RIXSTART	START address: points to an 8-byte area containing the PROC name of the started task. If no started procedure name was supplied, the value is blanks so that an exit routine can supply a value. However, RACINIT will not use the value.
20	(14)	ADDRESS	4	RIXINSTL	INSTLN address: points to an area containing the installation parameters. This address is zero if INSTLN was not specified. No system modules specify the INSTLN parameter. INSTLN is intended for use by installation-written routines that invoke RACINIT to communicate with the RACROUTE REQUEST=VERIFY(X) preprocessing exit. Do not confuse this value with the terminal data value (pointed to by RIXTRMDA, offset 68 in the parameter list) or the user data value (pointed to by RIXUSRDA, offset 72 in the parameter list), which are taken from fields in the RACF profiles for the user entering the system and the terminal being used.
24	(18)	ADDRESS	4	RIXGROUP	GROUP address: points to an area of the following format: Offset 0, length 1: Length of group name. Offset 1, length 8: Group name. If no group name was supplied, the length is zero and the value is blanks, so that an exit routine can supply a value.
28	(1C)	ADDRESS	4	RIXNEWPA	NEWPASS address: points to an area of the following format: Offset 0, length 1: Length of new password. Offset 1, length 8: New password. If no new password was supplied, the length is zero and the value is blanks, so that an exit routine can supply a value.
32	(20)	ADDRESS	4	RIXACEE	ACEE address: points to an area containing the access control environment element. At entry to the RACROUTE REQUEST=VERIFY(X) preprocessing exit, this address points to the area of storage where the ACEE will be built. At entry to the RACROUTE REQUEST=VERIFY(X) postprocessing exit, this address points to the actual ACEE built by RACINIT. Any changes made by the postprocessing routine remain in effect for the duration of the session or job.
36	(24)	ADDRESS	4	RIXPGMNM	PGMNAME address: points to a 20-byte area containing the programmer name information (or blanks if no programmer name exists). This address is zero if PGMNAME was not specified.

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
40	(28)	ADDRESS	4	RIXACTIN	ACTINFO address: points to a 144-byte area containing accounting information (or zeroes if no accounting information exists). The 144-byte area is consistent with similar accounting information in the SMF (type 20) job initiation record: - The first byte contains the number (in binary) of accounting fields. - The following bytes contain accounting fields, where each entry for an accounting field contains a 1-byte length field followed by the field (in EBCDIC). A length indicator of 0 indicates an omitted field. This address is zero if ACTINFO was not supplied.
44	(2C)	ADDRESS	4	RIXOIDCD	OIDCARD address: points to an area containing a 1-byte length field followed by a field containing the OIDCARD identification number. The length byte is 0 if OIDCARD was not specified.
48	(30)	ADDRESS	4	RIXTRMID	TERMID address: points to an 8-byte area containing the terminal identifier. The name is left-justified and padded on the right with blanks. This address is 0 if TERMID was not specified. If this value is altered in the exit the POE value will also be altered and its class will be TERMINAL. (since a terminal is the same as a port of entry in the TERMINAL class)
52	(34)	ADDRESS	4	RIXWA	Work area address: points to a fullword of zeroes on the initial entry to the preprocessing routine. Because this field is set to zeroes before entry to the preprocessing exit, the preprocessing and postprocessing exits can use this work area to communicate with each other.
56	(38)	ADDRESS	4	RIXCOMP	ABEND code address: points to a 4-byte field containing the ABEND code that RACINIT is going to issue. The low-order 12 bits of the field contain the ABEND code. The address points to an area containing zeroes for the postprocessing routine if RACINIT is not going to issue an ABEND code. This address points to an area containing zeroes for the preprocessing routine. (If ABEND processing is to be bypassed, the exit routine can set the ABEND code to zero. In this case, the return code should also be set to zero; otherwise the ABEND reason code will be passed to the RACINIT caller as a return code). Do not confuse an ABEND issued by RACINIT with one issued by an invoker of RACINIT. For example, if a user is not defined to RACF, RACINIT will not issue an ABEND, but the invoker of RACHECK may. A batch job might fail with a JCL error in this case, although RACINIT completed without an ABEND.

RIXP

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
60	(3C)	ADDRESS	4	RIXRCODE	<p>Return code address: points to a 4-byte field containing either:</p> <ol style="list-style-type: none"> the return code to be passed back to the RACINIT caller in response to the identification request. For the meanings of these return codes, see <i>OS/390 Security Server External Security Interface (RACROUTE) Macro Reference</i>. the reason code used to cause the ABEND to be issued (if nonzero). For meanings of these ABEND codes, see <i>OS/390 Security Server (RACF) Messages and Codes</i>. <p>This address points to an area containing zeroes for the preprocessing routine.</p> <p>Note: Do not confuse this code with the return code from the RACROUTE REQUEST=VERIFY(X) preprocessing and postprocessing exits documented in <i>OS/390 Security Server (RACF) System Programmer's Guide</i>.</p>
64	(40)	ADDRESS	4	RIXFLAG2	<p>Flag byte address: points to a 1-byte area of the following format:</p> <p>B'10000000' 1... Bypass OIDCARD processing. RACINIT will ignore any OIDCARD information and any user profile indication that an OIDCARD is required.</p> <p>B'01000000' .1.. Data from ACEE VLF cache. Data from cache may not be current if not cache sensitive. Data normally retrieved from profile may not be available. Use data from the ACEE.</p> <p>B'00100000' ..1. For post-processing exit, indicates user is being authenticated by a PassTicket. ...0 0000 Reserved.</p>
		1...		RIXBYPOI	
		.1..		RIXCACHE	
		..1.		RIXPTAUT	
68	(44)	ADDRESS	4	RIXTRMDA	<p>Terminal data address: points to a 1-byte length field followed by the installation terminal data, as specified in the DATA parameter of the RDEFINE or RALTER commands. The length field includes the 1-byte length of the length field. This address is zero if (1) no data is present, (2) the profile could not be retrieved, (3) the preprocessing routine indicated bypassing of RACINIT, or (4) the NOTERMINAL system option is in effect.</p>
72	(48)	ADDRESS	4	RIXUSRDA	<p>User data address: points to a 1-byte length field followed by the installation data specified on the ADDUSER and ALTUSER commands for the user specified on RACINIT. The length field includes the 1-byte length of the length field. The address points to an area containing zeroes for the preprocessing routine. In addition, the address is zero if (1) no data is present, (2) the profile could not be retrieved, or (3) the preprocessing routine indicated bypassing of RACINIT.</p>
76	(4C)	ADDRESS	4	RIXTRMLV	<p>Terminal level number address: points to a 1-byte field containing the LEVEL value from the terminal profile as set by the RDEFINE or RALTER commands. This address is zero if (1) the profile could not be retrieved, or (2) the preprocessing routine indicated bypassing of RACINIT.</p>
80	(50)	ADDRESS	4	RIXJOBNM	<p>Jobname address: points to an 8-byte area containing the job name of a background job. The area contains blanks if no job name information is available.</p>

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
84	(54)	ADDRESS	4	RIXAPPLN	APPL name address: points to an 8-byte field containing the application name, if supplied on the RACINIT macro instruction. The name is left-justified and padded with blanks. If the APPL parameter was not specified, the field contains blanks.
88	(58)	ADDRESS	4	RIXSUBPL	SUBPOOL address: points to a 1-byte field containing the subpool (as specified on the RACINIT macro) from which the ACEE and its storage will be obtained. This field has meaning only when the appropriate bit is set in the flag byte, pointed to from offset 4 in the parameter list. Because the storage has already been obtained when the preprocessing exit gains control, there is no effect if the exit changes this value.
92	(5C)	ADDRESS	4	RIXACEEA	ACEE address: points to a fullword containing the address specified on the ACEE parameter of the RACINIT macro instruction. If the ACEE parameter was not specified on the RACINIT macro instruction, this parameter is zero. When specified, the fullword has the following meanings: - For ENVIR=CREATE, RACF will place the address of the ACEE to be built in the fullword and not into the ASXBSENV. This address is identical to the contents of the field at offset 32 in the parameter list. - For ENVIR=CHANGE or ENVIR=DELETE, the fullword contains the address of the ACEE as specified on the RACINIT macro instruction. This address is identical to the contents of RIXACEE at offset 32 in the parameter list.
96	(60)	ADDRESS	4	RIXAPPLD	Application data pointer: points to a 1-byte field containing the length of the application data followed by the application data as specified by the DATA operand on the RDEFINE or RALTER commands. The pointer is zero if (1) the application name was not supplied, (2) the profile could not be retrieved, or (3) the preprocessing exit indicated bypassing of RACINIT. The pointer is always zero on entry to the preprocessing exit.
100	(64)	ADDRESS	4	RIXAPPLP	Application level pointer: points to a 1-byte field containing the level value for the application, as specified by the LEVEL operand on the RDEFINE or RALTER commands. The pointer is zero if: - The application name was not supplied - The profile could not be retrieved - The preprocessing exit indicated bypassing of RACINIT The address is always zero on entry to the preprocessing exit. (Note: If the application identified by RIXAPPLN at offset 84 is IMS, you should not use this field because IMS uses this field when IMS is active.)
104	(68)	ADDRESS	4	RIXPCIA	Password Change Interval Address: points to a 4-byte area that contains a 31-bit fixed binary integer that represents the password change interval value found in the user's profile. NOTE: Upon initial entry to exit ICHRIX01 the four byte field will contain zeros. Upon entry to the ICHRIX02 exit, the four byte field will contain the value from the user entry. Changes to this value are ignored by RACINIT processing.

RIXP

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
108	(6C)	ADDRESS	4	RIXPLCDA	Password Last Change Date Address: points to a 3-byte area that contains the date of the last password change. The format of this area is: yyddd where: 'yy' is the year, 'ddd' is the day, and 's' is the packed decimal sign. NOTE: Upon initial entry to exit ICHRIX01 the three byte field will contain zeros. Upon entry to the ICHRIX02 exit, the three byte field will contain the value from the user entry.
112	(70)	ADDRESS	4	RIXPSESN	"Session Type" Data Address: points to a 1-byte area that contains the session type. These are defined in the macro - ICHRUTKN.
116	(74)	ADDRESS	4	RIXWUIDF	Work Unit Identity Token Flag Byte Address: Mirrors the TOKFLG2 field in the token mapping macro ICHRUTKN. When the final individual fields are set on a RACINIT, this area is copied to the token associated with the ACEE. Points to a 1-byte area of the following format:
		1...		RIXDFTKN	B'10000000' 1... Default Token bit
		.1..		RIXUDUSR	B'01000000' .1.. Undefined User bit
		..1.		*	Reserved
		...1		RIXERRTK	B'00010000' ...1 Token in error
		.... 1...		RIXTRUST	B'00001000' 1... Part of Trusted Computer Base
		.... .1..		RIXSURGU	B'00000100' .... .1.. Surrogate User ID
		.... ..1.		RIXREMOT	B'00000010' .... ..1. REMOTE Keyword specified
		.... ...1		RIXPRIV	B'00000001' .... ...1 Privileged user indicator
120	(78)	ADDRESS	4	RIXPPOEX	"Port of Entry Index" Address: points to a 1-byte area that contains the class determined by the port of entry and session type. These are defined in the macro - ICHRUTKN.
124	(7C)	ADDRESS	4	RIXPSLBP	SECLABEL Address: points to an 8-byte character SECLABEL field.
128	(80)	ADDRESS	4	RIXPXNDP	EXECUTION NODE Address: points to a 1-byte field containing the length of the EXECUTION NODE followed by an 8-byte EXECUTION NODE name.
132	(84)	ADDRESS	4	RIXPSIDP	SUBMITTERS USERID Address: points to a 1-byte field containing the length of the SUBMITTERS ID followed by an 8-byte SUBMITTERS ID.
136	(88)	ADDRESS	4	RIXPSNDP	SUBMITTERS NODE Address: points to a 1-byte field containing the length of the SUBMITTERS NODE followed by an 8-byte SUBMITTERS NODE name.
140	(8C)	ADDRESS	4	RIXPSGPP	SUBMITTERS GROUP ID Address: points to a 1-byte field containing the length of the SUBMITTERS GROUP followed by an 8-byte SUBMITTERS GROUP name.
144	(90)	ADDRESS	4	RIXPPOE	PORT OF ENTRY Address: points to an 8-byte character PORT OF ENTRY field.
148	(94)	ADDRESS	4	RIXPUTKP	TOKNIN Address: points to a Users TOKEN which can be mapped by macro ICHRUTKN.
152	(98)	ADDRESS	4	RIXPSTKP	TOKEN Address: points to a Submitters TOKEN which can be mapped by macro ICHRUTKN.
156	(9C)	ADDRESS	4	RIXPLSRP	LOG STRING Address: points to a 1-byte length field followed by up to 255 bytes of LOG data used in auditing.
160	(A0)	ADDRESS	4	RIXPOTKP	TOKNOUT Address: points to a Users TOKEN which can be mapped by macro ICHRUTKN.
164	(A4)	ADDRESS	4	RIXPOENP	PORT OF ENTRY NETWORK NAME address: points to a 1-byte length followed by a 1 to 8-byte character PORT OF ENTRY NETNAME field. Zero if not specified.

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
168	(A8)	ADDRESS	4	RIXPLCD4	<p>Password Last Change Date Address: points to a 4-byte area that contains the date of the last password change. The format of this area is: YYYYDDDS</p> <p>where 'YYYY' is the year, 'DDD' is the day, and 'S' is the packed decimal sign.</p> <p>Note: Upon initial entry to exit ICHRIX01, the 4-byte field contains zeros. Upon entry to the ICHRIX02 exit the 4-byte field contains the value from the user entry.</p>

Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
RIXACEE	20		2	RIXREMOT	74	2	2
RIXACEEA	5C		2	RIXSMCNO	4	20	2
RIXACTIN	28		2	RIXSMCYS	4	0	2
RIXAPPLD	60		2	RIXSTANO	4	4	2
RIXAPPLN	54		2	RIXSTART	10		2
RIXAPPLP	64		2	RIXSUBPL	58		2
RIXBYPOI	40	80	2	RIXSUBPP	4	10	2
RIXCACHE	40	40	2	RIXSURGU	74	4	2
RIXCOMP	38		2	RIXTRMDA	44		2
RIXDFTKN	74	80	2	RIXTRMID	30		2
RIXENCNO	4	1	2	RIXTRMLV	4C		2
RIXENVCH	4	40	2	RIXTRUST	74	8	2
RIXENVCR	4	0	2	RIXUDUSR	74	40	2
RIXENVDE	4	80	2	RIXUID	8		2
RIXERRTK	74	10	2	RIXUSRDA	48		2
RIXFLAG	4		2	RIXWA	34		2
RIXFLAG2	40		2	RIXWUIDF	74		2
RIXGROUP	18		2				
RIXINSTL	14		2				
RIXJOBNM	50		2				
RIXLEN	0		2				
RIXLOGAL	4	2	2				
RIXNEWPA	1C		2				
RIXOIDCD	2C		2				
RIXPCIA	68		2				
RIXPGMNM	24		2				
RIXPLCDA	6C		2				
RIXPLCD4	A8		2				
RIXPLSRP	9C		2				
RIXPOENP	A4		2				
RIXPOTKP	A0		2				
RIXPPOE	90		2				
RIXPPOEX	78		2				
RIXPRIV	74	1	2				
RIXPSCKN	4	8	2				
RIXPSCKY	4	0	2				
RIXPSESN	70		2				
RIXPSGPP	8C		2				
RIXPSIDP	84		2				
RIXPSLBP	7C		2				
RIXPSNDP	88		2				
RIXPSTKP	98		2				
RIXPTAUT	40	20	2				
RIXPUTKP	94		2				
RIXPWD	C		2				
RIXPXNDP	80		2				
RIXRCODE	3C		2				

RLST: RACROUTE REQUEST=LIST Parameter List (Request Section)

Common Name: Request-specific portion of the RACROUTE REQUEST=LIST parameter list

Macro ID: IRRPRLST

DSECT Name: RLSTPARM

Owning Component: Resource Access Control Facility (SC1BN)

Eye-Catcher ID: None

Storage Attributes: Subpool Determined by caller
Key Determined by caller
Residency Determined by caller

Size: Varies with RELEASE= parameter specified

Created by: RACROUTE REQUEST=LIST macro

Pointed to by: Address of SAFR plus offset in SAFPRACP

Serialization: None

Function: Maps the request-specific portion of the parameter list passed to the RACROUTE REQUEST=LIST routine

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE		RLSTPARM	LIST parameters
0	(0)	ADDRESS	2	RLSTSPNS (0)	Subpool Specifications:
0	(0)	ADDRESS	1	RLSTPSPN	Profile subpool number
1	(1)	ADDRESS	1	RLSTNSPN	Tree node subpool number
2	(2)	ADDRESS	1	RLSTCODE	Set to 2 or 3
3	(3)	BITSTRING	1	RLSTFLAG	Flags:
		11..		RLSTOPT	X'C0' Type of Request: B'00' for CREATE B'10' for DELETE
		..1.		RLSTOWN	X'20' 1 = Add OWNER to access list with ALTER authority
		...1		RLSTLOC	X'10' 1 = LOC=ABOVE specified
		.... 1...		RLSTREL	X'08' 1 = RELEASE=1.8 specified
		.... .1..		RLSTR19	X'04' 1 = RELEASE=1.9 specified
		.... ..1.		RLSTR192	X'02' 1 = RELEASE=1.9.2 specified
		.... ...1		*	Reserved
4	(4)	ADDRESS	4	RLSTLIST	Address of resource name list
8	(8)	ADDRESS	4	RLSTACEE	Address of ACEE to use
12	(C)	ADDRESS	4	RLSTINST	Address of installation exit data field
16	(10)	ADDRESS	4	RLSTAPPL	Address of application name
20	(14)	ADDRESS	4	RLSTCLAS	Address of class name
24	(18)	ADDRESS	4	RLSTFLTP	Address of filter string
28	(1C)	CHARACTER	4	RLSTXTND (0)	This extension exists when RELEASE=2.1 or greater is specified or RLSTCODE=3
28	(1C)	BITSTRING	1	RLSTFLG2	2nd flag byte
		1111 11..		*	Reserved
		.... ..1.		RLSTR21	X'02' 1 = RELEASE=2.1 specified
		.... ...1		RLSTGLBL	X'01' 1 = GLOBAL=YES specified
29	(1D)	CHARACTER	1		Reserved for future use
30	(1E)	SIGNED	2	RLSTLEN	Length of entire plist
30	(1E)	..1.	2	RLSTPLEN	End of plist

Cross Reference

Name	Hex Offset	Hex Value	Level
RLSTACEE	8		2
RLSTAPPL	10		2
RLSTCLAS	14		2
RLSTCODE	2		2
RLSTFLAG	3		2
RLSTFLG2	1C		2
RLSTFLTP	18		2
RLSTGLBL	1C	1	2
RLSTINST	C		2
RLSTLEN	1E		2
RLSTLIST	4		2
RLSTLOC	3	10	2
RLSTNSPN	1		2
RLSTOPT	3	C0	2
RLSTOWN	3	20	2
RLSTPLEN	1E	20	2
RLSTPSPN	0		2
RLSTREL	3	8	2
RLSTR19	3	4	2
RLSTR192	3	2	2
RLSTR21	1C	2	2
RLSTSPNS	0		2
RLSTXTND	1C		2

RLX1P: RACROUTE REQUEST=LIST Exit Parameter List

Common Name: RACROUTE REQUEST=LIST exit parameter list
Macro ID: ICHRLX1P
DSECT Name: RLX1PL
Owning Component: Resource Access Control Facility (XXH00)
Eye-Catcher ID: None
Storage Attributes: Subpool 229
 Key 0
Size: 60 bytes
Created by: RACROUTE REQUEST=LIST processor
Pointed to by: R1 at entry to ICHRLX01
Serialization: None
Function: Contains the list of addresses passed to RACROUTE REQUEST=LIST pre- and postprocessing installation exits

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	ADDRESS	4	RLX1LEN	Number address: points to a fullword containing the number of parameters in this list, including itself.
4	(4)	ADDRESS	4	RLX1FLAG	Flag byte address: points to a 1-byte area with the following format: B'00000000' 00.. ENVIR=CREATE B'10000000' 10.. ENVIR=DELETE B'00000000' ..0. OWNER=NO B'00100000' ..1. OWNER=YES ...0 0000 Reserved
8	(8)	ADDRESS	4	RLX1FUNC	points to a 1-byte area with the following format: B'00000000' 0... Call is for preprocessing B'10000000' 1... Call is for postprocessing
12	(C)	ADDRESS	4	RLX1INST	INSTLN address: points to an area containing the data specified by the INSTLN parameter on the RACLIST macro. This address is 0 if INSTLN was not specified on RACLIST. No system modules specify the INSTLN parameter; it is intended for use by installation-written routines that invoke RACLIST to communicate with the RACROUTE REQUEST=LIST pre/postprocessing exits.
16	(10)	ADDRESS	4	RLX1CLAS	CLASS address: points to an 8-byte field containing the class name. The class name is left-justified and padded with blanks if necessary.
20	(14)	ADDRESS	4	RLX1ACEE	ACEE address: points to a fullword that contains the address of the ACEE as specified on the RACLIST macro. If the ACEE parameter was not specified on the RACLIST macro, the fullword contains zeroes and RACLIST uses the ACEE pointed to by TCBSENV in the current task control block (TCB) or ASXBSENV in the address space extension block (ASXB).
24	(18)	ADDRESS	4	RLX1APPL	APPL address: points to an 8-byte area containing the application name as specified on the RACLIST macro. If not specified on the RACLIST macro, the 8-byte area contains blanks.

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
28	(1C)	ADDRESS	4	RLX1SUBP	SUBPOOL address: points to a 2-byte area containing subpool information. The first byte identifies the subpool from which the in-storage profile index will be obtained. The second byte identifies the subpool from which the profiles will be obtained. The subpool values are taken from the SUBPOOL parameter on the RACLIST macro instruction. These values can be changed if the exit has been invoked for preprocessing; if the exit is invoked for postprocessing, changes will have no effect, because the storage has already been obtained.
32	(20)	ADDRESS	4	RLX1LIST	LIST address: specifies the address of a fullword containing the address of the list of resource names specified on the RACLIST macro. The fullword contains zeroes if LIST was not specified on the RACLIST macro. The first halfword of the list of resource names contains the number of resource names in the list. This count field is followed by the resource name entries. Each resource name entry consists of a 1-byte length field giving the length of the resource name followed by the resource name itself.
36	(24)	ADDRESS	4	RLX1RULE	Rule flags address: points to eleven contiguous 1-byte fields. RACLIST processing builds a working profile for each resource name and, for successive occurrences of the resource name, merges the new information with the information in the working profile. A resource name can appear in more than one resource group and can also have a profile of its own on the RACF data set. These rule flags determine how conflicts are resolved between multiple occurrences of resource names within resource groups or between resource groups and a resource profile. The fields in each of the eleven flag bytes have the following significance:
		1...		RLX1GGL	B'1000000' 1000 Least restrictive when resolving conflicts between occurrences in groups. (For example, a profile with UACC=UPDATE would be selected over one with UACC=NONE.)
		.1..		RLX1GGM	B'0100000' 0100 Most restrictive when resolving conflicts between occurrences in groups. (In this case, UACC=NONE would be selected over UACC=UPDATE.)
		..1.		RLX1GGX	B'0010000' 0010 Use value from external profile when resolving conflicts between occurrences in groups.
		...1		RLX1GGW	B'0001000' 0001 Use value from working profile when resolving conflicts between occurrences in groups. This rule means that the first value encountered is used. Note that for multiple occurrences of a resource name, the order in which they appear is dependent on the alphanumeric sequence of the resource group names and the individual profile name (if any).
		.... 1...		RLX1GIL	B'0000100' 1000 Least restrictive when resolving conflicts between groups and an individual occurrence.
		.... .1..		RLX1GIM	B'0000010' 0100 Most restrictive when resolving conflicts between groups and an individual occurrence.
		.... ..1.		RLX1GIX	B'0000001' 0010 Use value from external profile when resolving conflicts between groups and an individual occurrence.

RLX1P

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		.... ...1		RLX1GIW	B'00000001' 0001 Use value from working profile when resolving conflicts between groups and an individual occurrence. This rule means that the first value encountered is used. Note that, for multiple occurrences of a resource name, the order in which they appear is dependent on the alphanumeric sequence of the resource group names and the individual profile name (if any). The nine flag bytes are initialized as follows:
		.1.. .1..		RLX1UACC	X'44' UACC: initialized to X'44', meaning use the most restrictive of the profile UACC authorizations.
		.1.. .1..		RLX1AUDF	X'44' AUDIT flags: initialized to X'44', meaning OR the flag bytes. This causes an audit option to be in effect in the final profile if it was in effect in any of the profiles being merged. RACLIST uses the most-encompassing audit qualifiers. If changed to X'88' by the exit, it would mean AND the flag bytes. This causes an audit option to be in effect in the final profile only if it was on in all of the profiles being merged. RACLIST uses the least-encompassing audit qualifiers.
		.1.. .1..		RLX1GLAU	X'44' GLOBALAUDIT flags: initialized to X'44' with meaning and effects identical to AUDIT flags.
		.1.. .1..		RLX1RESL	X'44' Resource level: initialized to X'44', meaning use the higher level. If changed to X'88' by the exit, it would mean use the lower level. See the description of the LEVEL operand in the <i>OS/390 Security Server (RACF) Command Language Reference</i> .
		..1. ..1.		RLX1IDTA	X'22' Installation data: initialized to X'22', meaning use the value from the external profile. (Bit settings 1000.... and 0100.... are treated as 0001....; bit settings ....1000 and ....0100 are treated as ....0001.)
		..1. ..1.		RLX1ADTA	X'22' Application data: initialized to X'22', meaning use the value from the external profile. (Bit settings 1000.... and 0100.... are treated as 0001....; bit settings ....1000 and ....0100 are treated as ....0001.)
		1... 1...		RLX1ACCL	X'88' Access list entries: initialized to X'88', meaning use the least restrictive of the entries.
		..1. ..1.		RLX1OWNX	X'22' OWNER: initialized to X'22', meaning use the value from the external profile. (Bit settings 1000.... and 0100.... are treated as 0001....; bit settings ....1000 and ....0100 are treated as ....0001.)
		..1. ..1.		RLX1NTFY	X'22' NOTIFY: initialized to X'22', meaning use the value from the external profile. (Bit settings 1000.... and 0100.... are treated as 0001....; bit settings ....1000 and ....0100 are treated as ....0001.)
		...1 ...1		RLX1TERM	X'11' TERMINAL: initialized to X'11', meaning use the value from the working profile. (Bit settings 1000.... and 0100.... are treated as 0001....; bit settings ....1000 and ....0100 are treated as ....0001.)
		...1 ...1		RLX1SLBL	X'11' SECLABEL: initialized to X'11', meaning use the value from the working profile. (Bit settings 1000.... and 0100.... are treated as 0001....; bit settings ....1000 and ....0100 are treated as ....0001.) If a RACF selection exit is active, RACLIST uses the value from the working profile for all fields except the access list entries. For the other values, processing proceeds as if X'11' had been specified. The RACLIST selection can override this processing. For more information, see the <i>OS/390 Security Server (RACF) System Programmer's Guide</i> .

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
40	(28)	ADDRESS	4	RLX1XAMT	Profile expansion amount address: points to a fullword initialized to zeroes, which is the minimum amount of expansion space to provide at the end of the working profile passed to the processing exit. This parameter allows an exit routine to control how much data it can store in the working profiles that RACLIST builds and passes to the selection exit.
44	(2C)	ADDRESS	4	RLX1CODE	Return code address: specifies the address of a fullword to be used as a return code by RACLIST if the exit issues return code 4. On entry to the preprocessing exit, the return code is 0. On entry to the postprocessing exit, the return code is the value RACLIST would return to the caller. Note that this field allows the exit to terminate RACLIST with a 0 or any other return code. Because the exit routine can build resident profiles and an index structure of its own, it might terminate RACLIST in a non-error case with a normal return code.
48	(30)	ADDRESS	4	RLX1WA	Work area address: points to a fullword of zeroes. The exit can use this field for any purpose. Because this field is initialized to zeroes before entry to the pre/postprocessing exit, it can be used for communication between invocations of the exit for preprocessing and postprocessing.
52	(34)	ADDRESS	4	RLX1TREE	Class tree anchor element address: points to a fullword that contains the address of the class tree anchor element that is added to the class tree anchor element chain pointed to by the effective ACEE (see RIXAPPLN field at offset 20). Each class chained off the ACEE has one class tree anchor element, containing the classname for the in-storage profiles and a pointer to the in-storage profile structure in the ISP data area. For a description of the use of the RACF in-storage profile (ISP) in RACROUTE REQUEST=LIST exit processing, see <i>OS/390 Security Server (RACF) System Programmer's Guide</i> . This field has meaning only for the RACROUTE REQUEST=LIST postprocessing exit and is 0 if a class tree is not encountered.
56	(38)	ADDRESS	4	RLX1FLTR	Filter string pointer: points to a one byte length followed by a filter string. For the format of the filter string, see the description of the RACLIST macro FILTER keyword.

Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
RLX1ACCL	24	88	2	RLX1GGX	24	20	2
RLX1ACEE	14		2	RLX1GIL	24	8	2
RLX1ADTA	24	22	2	RLX1GIM	24	4	2
RLX1APPL	18		2	RLX1GIW	24	1	2
RLX1AUDF	24	44	2	RLX1GIX	24	2	2
RLX1CLAS	10		2	RLX1GLAU	24	44	2
RLX1CODE	2C		2	RLX1IDTA	24	22	2
RLX1ENVC	4	0	2	RLX1INST	C		2
RLX1ENVD	4	80	2	RLX1LEN	0		2
RLX1FLAG	4		2	RLX1LIST	20		2
RLX1FLTR	38		2	RLX1NTFY	24	22	2
RLX1FUNC	8		2	RLX1OWNN	4	0	2
RLX1GGL	24	80	2	RLX1OWNX	24	22	2
RLX1GGM	24	40	2	RLX1OWNY	4	20	2
RLX1GGW	24	10	2	RLX1POST	8	80	2

RLX1P

Name	Hex Offset	Hex Value	Level
RLX1PRE	8	0	2
RLX1RESL	24	44	2
RLX1RULE	24		2
RLX1SLBL	24	11	2
RLX1SUBP	1C		2
RLX1TERM	24	11	2
RLX1TREE	34		2
RLX1UACC	24	44	2
RLX1WA	30		2
RLX1XAMT	28		2

RLX2P: RACROUTE REQUEST=LIST Selection Exit Parameter List

Common Name: RACROUTE REQUEST=LIST selection exit parameter list
Macro ID: ICHRLX2P
DSECT Name: RLX2PL
Owning Component: Resource Access Control Facility (XXH00)
Eye-Catcher ID: None
Storage Attributes: Subpool 229
 Key 0
Size: 120 bytes
Created by: RACROUTE REQUEST=LIST processor
Pointed to by: R1 at entry to ICHRLX02
Serialization: None
Function: Contains the list of addresses passed to RACROUTE REQUEST=LIST selection installation exit

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	ADDRESS	4	RLX2LEN	Number address: points to a fullword containing the number of parameters in this list, including itself.
4	(4)	ADDRESS	4	RLX2PRPA	Preparameters address: address of the parameter list passed to the RACROUTE REQUEST=LIST preprocessing exit. This parameter is passed to allow communication between the RACROUTE REQUEST=LIST pre- and postprocessing exits and the RACROUTE REQUEST=LIST selection exit, because processing logic in one exit routine might require corresponding processing in the other exit routine.
8	(8)	ADDRESS	4	RLX2FLAG	Flag byte address: points to a 1-byte area with the following format:
		1... ..		RLX2NPRV	B'10000000' 1... .. The resource was not encountered
		.... ..		RLX2PRVE	B'00000000' 0... .. The resource was encountered
		.... ..		RLX2DGRP	B'00000000' .0.. Data comes from a group profile
		.1..		RLX2DRES	B'01000000' .1.. Data comes from a resource profile ..00 0000 Reserved
12	(C)	ADDRESS	4	RLX2RNAM	Resource name address: points to a 1-byte length field followed by the name of the resource that RACLIST is currently processing.
16	(10)	ADDRESS	4	RLX2RGRP	Resource group name address: points to a 1-byte length field followed by the name of the resource group from which the current resource name was selected. This address is 0 if the resource name is not from a resource group. The exit should not change this value. Do not confuse the name of the resource being processed with the name of the resource group from which it was selected.
20	(14)	ADDRESS	4	RLX2RNCL	Resource name class address: address of an 8-byte class name for the currently selected resource. The exit should not change this value.

RLX2P

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
24	(18)	ADDRESS	4	RLX2RGCA	Resource group class address: address of an 8-byte class name for the resource group from which the current resource was selected. This address is 0 if the resource profile was not built because it is a member of a resource group. The exit should not change this value. Do not confuse the class of the resource being processed with the class of the resource group from which the resource was selected.
28	(1C)	ADDRESS	4	RLX2UACC	UACC address: points to a 1-byte field containing the universal access flags from the resource profile. The possible values are: X'80' - ALTER X'40' - CONTROL X'20' - UPDATE X'10' - READ X'01' - NONE
32	(20)	ADDRESS	4	RLX2AUD	Audit flag address: points to a 1-byte field containing the audit indicators and qualifiers from the resource profile.
36	(24)	ADDRESS	4	RLX2GLAU	Global audit flags address: points to a 1-byte field containing the global audit indicators and qualifiers from the resource profile.
40	(28)	ADDRESS	4	RLX2RLVL	Resource level number address: points to a 1-byte field containing the LEVEL value from the resource profile.
44	(2C)	ADDRESS	4	RLX2DATA	DATA address: points to a 1-byte field followed by the installation data that was specified on the RDEFINE or RALTER command for the resource. The length field is zero if no data is present.
48	(30)	ADDRESS	4	RLX2ACCL	Access list address: points to the access list retrieved from the source profile. The first two bytes of the list contain the number of entries in the list. Each entry is nine bytes long: an 8-character userid or group name followed by a 1-byte access authority. The possible values for the access authority are: X'80' - ALTER X'40' - CONTROL X'20' - UPDATE X'10' - READ X'01' - NONE
52	(34)	ADDRESS	4	RLX2ANCH	Profile anchor address: points to a working copy of the profile. On the first encounter with a resource, the profile is filled in with the data taken from the external profile, which is also passed in the preceding five parameters. On subsequent encounters with the resource, the profile is not updated to reflect the data taken from the external profile. It is the responsibility of the exit to modify, if desired, the UACC, audit, global audit, resource level, installation, and application data fields. These modifications have the effect of propagating the first value encountered. On return from this exit, RACF merges access lists according to the value of the rule flags for access list entries.

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
56	(38)	ADDRESS	4	RLX2OWNN	Owner name address: points to an 8-byte field containing the owner value from the resource profile. If OWNER=YES was specified on the RACLIST request, the owner field has been added to the access list (pointed to by offset 48 (X'30' or label RLX2ACCL)) with ALTER authority. Once the owner is added to the access list, this information is treated as if it were originally part of the list. This parameter allows the exit to selectively override the effect of the OWNER parameter.
60	(3C)	ADDRESS	4	RLX2APPL	APPLDATA address: points to a 1-byte length field followed by the application data that was specified on the RDEFINE or RALTER command for the resource. The length field is zero if no data is present. RACLIST does not use this field in its processing. This field is intended for use by installation-written routines managing installation-defined resource classes and resources, to provide additional information to the exit routine.
64	(40)	ADDRESS	4	RLX2NTFY	NOTIFY address: points to an 8-byte area containing the userid of the user to be notified when RACF detects an unauthorized attempt to access a resource protected by this profile.
68	(44)	ADDRESS	4	RLX2SLVL	SECLEVEL address: points to a 2-byte length field followed by the SECLEVEL value from the resource profile.
72	(48)	ADDRESS	4	RLX2CTGY	CATEGORIES address: points to the address of a 2-byte field that contains the length of the 2-byte count of categories contained in the second field. The third 2-byte field is the length of the list of categories. The last field is the list of categories from the resource profile.
76	(4C)	ADDRESS	4	RLX2TERM	TERMINAL address: points to an area containing data for logon times allowed a terminal.
80	(50)	ADDRESS	4	RLX2WARN	WARNING address: points to a 2-byte field containing the warning flag from the resource profile. Possible values are: X'80' - Warning in effect X'00' - Warning not in effect
84	(54)	ADDRESS	4	RLX2KEYP	SESSION KEY address: points to an 8-byte area containing the session key used for establishing a session level security session.
88	(58)	ADDRESS	4	RLX2SLSF	SESSION LEVEL SECURITY FLAG address: points to a 1-byte field containing the session level security flag with the following format: B'1000000' 1... The resource has been locked to prevent a session from being established. .111 1111 Reserved
		1...		RLX2SLCK	
92	(5C)	ADDRESS	4	RLX2LKYD	LAST CHANGE DATE address: points to a 4-byte area containing the last change date for the session key.
96	(60)	ADDRESS	4	RLX2KYIN	SESSION KEY INTERVAL address: points to a 2-byte area containing the maximum number of days for which the key is valid.
100	(64)	ADDRESS	4	RLX2MXFL	MAXIMUM FAILURES address: points to a 2-byte area containing the maximum number of failed attempts permitted before the resource is locked.
104	(68)	ADDRESS	4	RLX2SLBL	SECLABEL address: points to an 8-byte area containing the SECLABEL of the resource profile.

RLX2P

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
108	(6C)	ADDRESS	4	RLX2ACL2	<p>SECOND ACCESS LIST address: Points to a variable length field containing a 2 byte length followed by the second access list entries. Each entry in the second access list conforms to the following structure:</p> <p>8 byte program name of which the first byte is considered a flag byte. 8 byte user or group ID. 1 byte access authority. 2 byte count field. 1 byte length field describing the length of the following. 8 byte class id. 2 byte reserved. 1 byte length field describing the variable length data.</p>
112	(70)	ADDRESS	4	RLX2AL2C	SECOND ACCESS LIST COUNT address: Points to a 2 byte field containing the number of entries in the second access list.
116	(74)	ADDRESS	4	RLX2SCON	Conversation Security

Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
RLX2ACCL	30		2	RLX2UPDA	1C	20	2
RLX2ACL2	6C		2	RLX2WARN	50		2
RLX2ALTE	1C	80	2				
RLX2AL2C	70		2				
RLX2ANCH	34		2				
RLX2APPL	3C		2				
RLX2AUD	20		2				
RLX2CONT	1C	40	2				
RLX2CTGY	48		2				
RLX2DATA	2C		2				
RLX2DGRP	8	0	2				
RLX2DRES	8	40	2				
RLX2FLAG	8		2				
RLX2GLAU	24		2				
RLX2KEYP	54		2				
RLX2KYIN	60		2				
RLX2LEN	0		2				
RLX2LKID	5C		2				
RLX2MXFL	64		2				
RLX2NONE	1C	1	2				
RLX2NPRV	8	80	2				
RLX2NTFY	40		2				
RLX2OWNN	38		2				
RLX2PRPA	4		2				
RLX2PRVE	8	0	2				
RLX2READ	1C	10	2				
RLX2RGCA	18		2				
RLX2RGRP	10		2				
RLX2RLVL	28		2				
RLX2RNAM	C		2				
RLX2RNCL	14		2				
RLX2SCON	74		2				
RLX2SLBL	68		2				
RLX2SLCK	58	80	2				
RLX2SLSF	58		2				
RLX2SLVL	44		2				
RLX2TERM	4C		2				
RLX2UACC	1C		2				

RNG: RACF Database Range Table

NOT Programming Interface Information

Common Name: RACF database range table
Macro ID: None
DSECT Name: None
Owning Component: Resource Access Control Facility (XXH00)
Eye-Catcher ID: None
Storage Attributes: Subpool LPA
 Key 0
Size: 4 bytes plus 45 bytes per range (49 bytes minimum)
Created by: RACF initialization based on RACF defaults or installation-provided ICHRRNG module
Pointed to by: RCVTRNGP field of the RCVT data area
Serialization: None
Function: Describes the alphabetic range of profiles contained in each RACF database

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	*	ICHPRNG	RANGE TABLE MAPPING
0	(0)	SIGNED	4	RNGNUM	NUMBER OF ARRAY ELEMENTS
4	(4)	CHARACTER	45	RNGVALS (*)	ARRAY OF RANGE/DS-NUMBER PAIRS
4	(4)	CHARACTER	44	RNGSTART	LOWER BOUND OF RANGE
48	(30)	UNSIGNED	1	RNGDSNUM	DATA SET SEQUENCE NUMBER

End of NOT Programming Interface Information

RRPF: Resident Profile Map

Common Name: Resident profile map
Macro ID: ICHRRPF
DSECT Name: RRPF, DSPVOLS, DSPACCES, DSPINSTD, DSPDPTD, DSP2ACCS
Owning Component: Resource Access Control Facility (SC1BN)
Eye-Catcher ID: None
Storage Attributes: When a CSA profile is requested:

Subpool 231
 Key 0

When a private profile is requested:

Subpool 229
 Key 0

Size:

Section	Size
1	136 bytes
2	2 bytes plus an unknown number of 6-byte fields at offset 2
3	2 bytes plus an unknown number of 9-byte fields at offset 2
4	2 bytes plus a variable of unknown length at offset 2
5	2 bytes plus an unknown number of 2-byte fields at offset 2
6	35 bytes plus a variable of unknown length at offset 35
7	2 bytes plus a variable of unknown length at offset 2
8	2 bytes plus a variable of unknown length at offset 2

Created by: RACROUTE REQUEST=AUTH processing when CSA or private option is specified

Pointed to by: ACEEAMP field of the ACEE data area or returned in Register 1 after RACROUTE REQUEST=AUTH request

Serialization: None

Function: Maps a profile for general resource used for authorization checking

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	136	RRPF	RESIDENT PROFILE MAP
0	(0)	UNSIGNED	4	DSPCORE	
0	(0)	UNSIGNED	1	RRPSP	AREA SUBPOOL NUMBER
1	(1)	ADDRESS	3	RRPLEN	TOTAL AREA LENGTH
4	(4)	CHARACTER	132	RRPVDATA	PROFILE DATA
4	(4)	CHARACTER	132	DSPSUB	
4	(4)	CHARACTER	44	DSPDSNM	RESOURCE NAME. This name is also located in new structure below. This mapping maintained for compatibility for earlier releases
48	(30)	BITSTRING	1	DSPUACC	UNIVERSAL ACCESS
49	(31)	BITSTRING	1	DSPAUDIT	AUDIT FLAGS
50	(32)	BITSTRING	1	DSPTYPE	D.S. TYPE FLAGS
		1... ..		DSPTP	1 VSAM, 0 NON-VSAM
		.1.. ..		DSPMDL	1 - MODEL.
		..1.		DSPTAPE	1 - TAPE.
		...1 1111		*	RESERVED
51	(33)	ADDRESS	1	DSPLEVEL	RESOURCE LEVEL

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
52	(34)	SIGNED	4	DSPVOLOF	OFFSET TO VOLSER LIST
56	(38)	SIGNED	4	DSPACCOF	OFFSET TO ACCESS LIST
60	(3C)	CHARACTER	8	DSPCLASS	RESOURCE CLASS
68	(44)	BITSTRING	1	DSPGAUD	GLOBAL AUDIT FLAG
69	(45)	UNSIGNED	1	DSPVRSN	VERSION = 1
70	(46)	BITSTRING	1	DSPWARN	WARNING FLAG BIT 7 = 1 - RESOURCE HAS WARNING ATTRIBUTE
71	(47)	BITSTRING	1	DSPEOS	ERASE-ON-SCRATCH FLAG BIT 0 = 1 - DATASET WILL BE ERASED WHEN SCRATCHED
72	(48)	SIGNED	4	DSPINST	OFFSET TO INSTALLATION DATA
76	(4C)	ADDRESS	4	DSPNEXTP	ADDR NEXT MODEL
80	(50)	BITSTRING	1	DSPFN	MODEL FOUND INDICATOR 0,FD -1,NFD
81	(51)	UNSIGNED	1	DSPSLVL	RESOURCE SECURITY LEVEL
82	(52)	SIGNED	2	DSPRTPD	RETENTION PERIOD
84	(54)	CHARACTER	8	DSPOWNER	RESOURCE OWNER
92	(5C)	CHARACTER	8	DSPNOTFY	USERID TO NOTIFY WHEN THIS PROFILE DENIES ACCESS
100	(64)	SIGNED	4	DSPDPTOF	OFFSET TO CATEGORY LIST
104	(68)	SIGNED	4	DSPPGMOF	OFFSET TO CONDITIONAL ACCESS LIST
108	(6C)	BITSTRING	1	DSPRESF	RESOURCE FLAG (ONLY FOR TAPE VOLUMES - BIT 0 = 1 VOLUME MAY ONLY CONTAIN ONE DATA SET - BIT 1 = 1 VOLUME CAN CONTAIN A TVTOC)
109	(6D)	BITSTRING	1	DSPTDAYS	DAYS THAT THE TERMINAL MAY NOT BE USED (BIT 0 - SUNDAY, BIT 1 - MONDAY,...
110	(6E)	CHARACTER	3	DSPLOGNT	EARLIEST TIME THAT THE TERMINAL BE USED.(HHMM)
113	(71)	CHARACTER	3	DSPLOGFT	LATEST TIME THAT THE TERMINAL BE USED.(HHMM)
116	(74)	CHARACTER	3	DSPTZONE	TIME OFFSET OF TERMINAL FROM THE CPU. (+ = EAST, - = WEST)
119	(77)	CHARACTER	1	*	RESERVED
120	(78)	CHARACTER	8	DSPSLABL	SECLABEL
128	(80)	CHARACTER	4	DSPDSNBF	Character form of offset to resource
128	(80)	SIGNED	4	DSPDSNOF	Offset to resource name in extended format
132	(84)	CHARACTER	4	DSPAPOFF	Offset to the application data.
132	(84)	SIGNED	4	DSPAPPOF	Offset to the application data.

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	*	DSPVOLS	VOLSER LIST
0	(0)	UNSIGNED	2	DSPVOLCT	NUMBER OF ENTRIES
2	(2)	CHARACTER	6	DSPVOLSR (*)	VOLSERS

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	*	DSPACCES	ACCESS LIST
0	(0)	UNSIGNED	2	DSPACT	NUMBER OF ENTRIES
2	(2)	CHARACTER	9	DSPACCLE (*)	ACCESS LIST ENTRIES
2	(2)	CHARACTER	8	DSPAUSER	USERID/GRPNAME
10	(A)	BITSTRING	1	DSPACS	ACCESS AUTHORITY

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	*	DSPINSTD	INSTALLATION DATA
0	(0)	SIGNED	2	DSPLINST	LENGTH OF INSTALLATION DATA
2	(2)	CHARACTER	*	DSPIDATA	INSTALLATION DATA

RRPF

Offsets			Len		
Dec	Hex	Type		Name (Dim)	Description
0	(0)	STRUCTURE	*	DSPDPTD	CATEGORY LIST
0	(0)	SIGNED	2	DSPDPTCT	NUMBER OF CATEGORIES
2	(2)	SIGNED	2	DSPDEPT (*)	CATEGORY LIST

Offsets			Len		
Dec	Hex	Type		Name (Dim)	Description
0	(0)	STRUCTURE	*	DSP2ACCS	Second Access List
0	(0)	UNSIGNED	2	DSP2GCT	Entry count
2	(2)	UNSIGNED	2	DSP2GLN	Access List Length
4	(4)	CHARACTER	20	DSP2ACCL	Entry structure
4	(4)	CHARACTER	8	DSP2ENT	Program Name / Flags
4	(4)	CHARACTER	1	DSPPGFLG	Flag byte
5	(5)	CHARACTER	7	DSPA2RST	The rest of name or flags
12	(C)	CHARACTER	8	DSP2USR	User/Group Id
20	(14)	BITSTRING	1	DSP2ACS	Access authority
21	(15)	UNSIGNED	2	DSP2GACS	Access Count
23	(17)	UNSIGNED	1	DSP2GVRL	Variable entity length
24	(18)	CHARACTER	*	DSP2GVAR	Variable entity information
24	(18)	CHARACTER	8	DSP2CLID	Class ID
32	(20)	CHARACTER	2	DSP2RSVD	Reserved
34	(22)	UNSIGNED	1	DSP2VENL	Variable Length
35	(23)	CHARACTER	*	DSP2VENT	Variable Entity

Offsets			Len		
Dec	Hex	Type		Name (Dim)	Description
0	(0)	STRUCTURE	*	DSPBUF	Resource name in extended format
0	(0)	CHARACTER	2	DSPDLEN	Character form of resource name length
0	(0)	SIGNED	2	DSPDSNML	Resource name length
2	(2)	CHARACTER	*	DSPDSNME	Resource name

Offsets			Len		
Dec	Hex	Type		Name (Dim)	Description
0	(0)	STRUCTURE	*	DSPAPPL	Structure of the application data.
0	(0)	SIGNED	2	DSPAPPLN	Length of the application data.
2	(2)	CHARACTER	*	DSPAPLDT	Application data.

Constants

Len	Type	Value	Name	Description
1	DECIMAL	0	DSPA2DAT	Conditional data is present.
1	DECIMAL	0	DSPVR00	Version 0 profile present.
1	DECIMAL	1	DSPVR01	Version 1 profile present.
1	DECIMAL	1	DSPCURV	Version 1 profile is current version.

Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
DSPACCES	0		1	DSP2CLID	18		3
DSPACCLE	2		2	DSP2ENT	4		3
DSPACCOF	38		4	DSP2GACS	15		3
DSPACS	A		3	DSP2GCT	0		2
DSPACT	0		2	DSP2GLN	2		2
DSPAPLDT	2		2	DSP2GVAR	18		2
DSPAPOFF	84		4	DSP2GVRL	17		3
DSPAPPL	0		1	DSP2RSVD	20		3
DSPAPPLN	0		2	DSP2USR	C		3
DSPAPPOF	84		5	DSP2VENL	22		3
DSPAUDIT	31		4	DSP2VENT	23		3
DSPAUSER	2		3	RRPF	0		1
DSPA2RST	5		4	RRPLEN	1		3
DSPBUF	0		1	RRPSP	0		3
DSPCLASS	3C		4	RRPVDATA	4		2
DSPCORE	0		2				
DSPDEPT	2		2				
DSPDLEN	0		2				
DSPDPTCT	0		2				
DSPDPTD	0		1				
DSPDPTOF	64		4				
DSPDSNBF	80		4				
DSPDSNM	4		4				
DSPDSNME	2		2				
DSPDSNML	0		3				
DSPDSNOF	80		5				
DSPEOS	47		4				
DSPFNF	50		4				
DSPGAUD	44		4				
DSPIDATA	2		2				
DSPINST	48		4				
DSPINSTD	0		1				
DSPLEVEL	33		4				
DSPLINST	0		2				
DSPLOGFT	71		4				
DSPLOGNT	6E		4				
DSPMDL	32	40	5				
DSPNEXTP	4C		4				
DSPNOTFY	5C		4				
DSPOWNER	54		4				
DSPPGFLG	4		4				
DSPPGMOF	68		4				
DSPRESF	6C		4				
DSPRTPD	52		4				
DSPSLABL	78		4				
DSPSLVL	51		4				
DSPSUB	4		3				
DSPTAPE	32	20	5				
DSPTDAYS	6D		4				
DSPTP	32	80	5				
DSPTYPE	32		4				
DSPTZONE	74		4				
DSPUACC	30		4				
DSPVOLCT	0		2				
DSPVOLOF	34		4				
DSPVOLS	0		1				
DSPVOLSR	2		2				
DSPVRSN	45		4				
DSPWARN	46		4				
DSP2ACCL	4		2				
DSP2ACCS	0		1				
DSP2ACS	14		3				

RSMXP: RACF Report Writer Selection Exit Parameter List

Common Name: RACF report writer selection exit parameter list
Macro ID: ICHRSMXP
DSECT Name: RSMXPL
Owning Component: Resource Access Control Facility (XXH00)
Eye-Catcher ID: None
Storage Attributes: Subpool Varies
 Key 8
Size: 24 bytes
Created by: RACF report writer
Pointed to by: R1 at entry to ICHRSMFE
Serialization: None
Function: Contains the list of addresses passed to the RACF report writer installation exit ICHRSMFE

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	ADDRESS	4	RSMCALLR	Reason code address: points to a fullword containing the reason for this call: X'00000000' - Prerecord selection X'00000004' - Postrecord selection X'00000008' - End-of-file
		.... ....		RSMPRES	
		.... .1..		RSMPOSTS	
		.... 1...		RSMEOF	
4	(4)	ADDRESS	4	RSMMDSTRA	Data string address: points to an area having the following format: 0 4 Address of DATA string 4 2 Length of DATA string 6 1 1-byte flag field. If bit 0 is on, DATA was specified on the RACFRW command.
8	(8)	ADDRESS	4	RSMSWTCH	Switch address: points to a 1-byte field containing switches indicating whether the RACF report writer will select or reject the record, based on the existing selection/rejection criteria. The format of these switches is:
		.... ....		RSMSLECT	B'00000000' 0... If 0, the record is selected. For RACF records with reason code = 0, this bit is 0 because no selection criterion has yet been applied.
		1...		RSMRJECT	B'10000000' 1... If 1, the record is rejected. For non-RACF records, this bit is 1 because non-RACF records are passed to this exit routine for inspection only.
		.... ....		RSMREFRS	B'00000000' .0.. If 0, the record is a reformatted RACF SMF record. For more information about these records, see <i>OS/390 Security Server (RACF) System Programmer's Guide</i> .
		.1..		RSMNONRS	B'01000000' .1.. If 1, the record is a non-RACF SMF record. ..00 0000 Reserved.
12	(C)	ADDRESS	4	RSMRCD	Record address: points to the non-RACF SMF record or the reformatted RACF SMF record under inspection. For reason code X'00000008', this address is set to zero.
16	(10)	ADDRESS	4	RSMPRDCB	SYSPRINT DCB address: points to an area containing the SYSPRINT DCB that has been opened. The SYSPRINT DCB parameters are: DSORG=PS, RECFM=FA, MACRF=PM, and LRECL=133.

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
20	(14)	ADDRESS	4	RSMCOMM	Communication area address: points to a fullword communication area that can be used by the exit routine. Initially, this field is set to zero.

Cross Reference

Name	Hex Offset	Hex Value	Level
RSMCALLR	0		2
RSMCOMM	14		2
RSMSTRA	4		2
RSMEOF	0	8	2
RSMNONRS	8	40	2
RSMPOSTS	0	4	2
RSMPRDCB	10		2
RSMPRES	0	0	2
RSMRCD	C		2
RSMREFRS	8	0	2
RSMRJECT	8	80	2
RSMSLECT	8	0	2
RSMSTCH	8		2

RUTKN: Resource/User Security Token

Common Name: Resource/user security token

Macro ID: ICHRUTKN

DSECT Name: TOKEN

Owning Component: Resource Access Control Facility (SC1BN)

Eye-Catcher ID: None

Storage Attributes: Subpool Determined by user
Key Determined by user
Residency Determined by user

Size: 80 bytes

Created by: RACROUTE REQUEST=TOKENBLD, VERIFY, or VERIFYX

Pointed to by: ACEETOKP. Also returned as an output parameter from RACROUTE REQUEST=TOKENBLD, VERIFY, or VERIFYX

Serialization: None

Function: Maps the RACF resource security token and the RACF user security token

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	80	TOKEN	
0	(0)	UNSIGNED	1	TOKLEN	UTOKEN / RTOKEN LENGTH
1	(1)	UNSIGNED	1	TOKVERS	UTOKEN / RTOKEN VERSION #
2	(2)	BITSTRING	1	TOKFLG1	MISCELLANEOUS FLAGS
		1...		TOKENCR	TOKEN IS ENCRYPTED
		.1..		*	RESERVED
		..1.		TOKLT19	TOKEN CREATED BY PRE 1.9 RACF CALL
		...1		TOKVXPRP	VERIFYX PROPAGATION FLAG
		.... 1..		TOKUNUSR	NJE UNKNOWN USER
		.... .1..		TOKLOGU	LOG USER INDICATOR
		.... ..1.		TOKRSPEC	RACF SPECIAL INDICATOR
		.... ...1		*	RESERVED
3	(3)	UNSIGNED	1	TOKSTYP	SESSION TYPE, DEFINED BELOW
4	(4)	BITSTRING	1	TOKFLG2	MISCELLANEOUS FLAGS
		1...		TOKDFLT	DEFAULT TOKEN
		.1..		TOKUDUS	UNDEFINED USER
		..1.		*	RESERVED
		...1		TOKERR	TOKEN IN ERROR
		.... 1..		TOKTRST	PART OF TRUSTED COMP BASE
		.... .1..		TOKSUS	SURROGATE USERID
		.... ..1.		TOKREMOT	REMOTE JOB INDICATOR
		.... ...1		TOKPRIV	PRIVILEGED INDICATOR
5	(5)	UNSIGNED	1	TOKPOEX	PORT OF ENTRY CLASS INDEX
6	(6)	BITSTRING	1	TOKFLG3	MISCELLANEOUS FLAGS
		1...		TOKDGRP	DEFAULT GROUP ASSIGNED
		.1..		TOKDSEC	DEFAULT SECLABEL ASSIGNED
		..1.		TOKNETF	NETWORK NAME SPECIFIED
		...1 1111		*	RESERVED
7	(7)	CHARACTER	1	*	RESERVED FOR EXPANSION
8	(8)	CHARACTER	8	TOKSCL	SECLABL
16	(10)	CHARACTER	8	TOKXNOD	EXECUTION NODE
24	(18)	CHARACTER	8	TOKSUSR	SUBMITTING USERID
32	(20)	CHARACTER	8	TOKSNOD	SUBMITTER NODE
40	(28)	CHARACTER	8	TOKSGRP	SUBMITTING GROUPID
48	(30)	CHARACTER	8	TOKPOE	PORT OF ENTRY(CONS ID,TERM ID)
56	(38)	CHARACTER	8	TOKNETW	REMOTE NETWORK NAME, IF TOKNETF IS ON.

Offsets			Len		
Dec	Hex	Type		Name (Dim)	Description
64	(40)	CHARACTER	8	TOKUSER	USERID
72	(48)	CHARACTER	8	TOKGRUP	GROUPID

Constants

Len	Type	Value	Name	Description
TOKSTYP SESSION TYPE DEFINITIONS				
1	DECIMAL	1	TOKSAS	SYSTEM ADDRESS SPACE
1	DECIMAL	2	TOKCMND	COMMAND
1	DECIMAL	3	TOKCONS	CONSOLE OPERATOR
1	DECIMAL	4	TOKSTP	STARTED PROCEDURE
1	DECIMAL	5	TOKMNT	MOUNT
1	DECIMAL	6	TOKTSO	TSO LOGON
1	DECIMAL	7	TOKBCH	INTERNAL READER BATCH JOB
1	DECIMAL	8	TOKXBM	INTERNAL READER EXECUTION BATCH MONITOR
1	DECIMAL	9	TOKRJE	RJE OPERATOR
1	DECIMAL	10	TOKNJE	NJE OPERATOR
1	DECIMAL	11	TOKNJEUS	VERIFYX UNKNOWN USER ID TOKEN
1	DECIMAL	12	TOKEBCH	EXTERNAL READER BATCH JOB
1	DECIMAL	13	TOKRBCH	RJE BATCH JOB
1	DECIMAL	14	TOKNBCH	NJE BATCH JOB
1	DECIMAL	15	TOKNSYS	NJE SYSOUT
1	DECIMAL	16	TOKEXBM	EXTERNAL XBM
1	DECIMAL	17	TOKRXBM	RJE XBM
1	DECIMAL	18	TOKNXBM	NJE XBM
1	DECIMAL	19	TOKAPPC	APPC SESSION
1	DECIMAL	20	TOKOSRV	OMVSSRV SESSION
1	DECIMAL	20	TOKLSESS	LAST CURRENTLY DEFINED SESSION
TOKPOEX CLASS INDEX DEFINITIONS				
1	DECIMAL	1	TOKTERM	TERMINAL CLASS
1	DECIMAL	2	TOKCON	CONSOLE CLASS
1	DECIMAL	3	TOKJESI	JESINPUT CLASS
1	DECIMAL	4	TOKAPORT	APPCPORT CLASS
1	DECIMAL	4	TOKPLAST	LAST CLASS DEFINITION
TOKVERS VERSION LEVEL DEFINITIONS				
1	DECIMAL	1	TOKVER01	VERSION 1 TOKEN
1	DECIMAL	1	TOKCVER	LAST CURRENTLY DEFINED VERSION

RUTKN

Cross Reference

Name	Hex Offset	Hex Value	Level
TOKDFLT	4	80	3
TOKDGRP	6	80	3
TOKDSEC	6	40	3
TOKEN	0		1
TOKENCR	2	80	3
TOKERR	4	10	3
TOKFLG1	2		2
TOKFLG2	4		2
TOKFLG3	6		2
TOKGRUP	48		2
TOKLEN	0		2
TOKLOGU	2	04	3
TOKLT19	2	20	3
| TOKNETF	6	20	3
| TOKNETW	38		2
TOKPOE	30		2
TOKPOEX	5		2
TOKPRIV	4	01	3
TOKREMOT	4	02	3
TOKRSPEC	2	02	3
TOKSCL	8		2
TOKSGRP	28		2
TOKSNOD	20		2
TOKSTYP	3		2
TOKSUS	4	04	3
TOKSUSR	18		2
TOKTRST	4	08	3
TOKUDUS	4	40	3
TOKUNUSR	2	08	3
TOKUSER	40		2
TOKVERS	1		2
TOKVXPRP	2	10	3
TOKXNOD	10		2

RXTL: RACROUTE REQUEST=EXTRACT Parameter List (Request Section)

Common Name: Request-specific portion of the RACROUTE REQUEST=EXTRACT parameter list
Macro ID: IRRPRXTL
DSECT Name: None
Owning Component: Resource Access Control Facility (SC1BN)
Eye-Catcher ID: None
Storage Attributes: Subpool Determined by caller
 Key Determined by caller
 Residency Determined by caller
Size: Varies
Created by: RACROUTE REQUEST=EXTRACT macro
Pointed to by: Address of SAFR plus offset in SAFPRACP
Serialization: None
Function: Maps the request-specific portion of the RACROUTE REQUEST=EXTRACT parameter list

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	12	EXTLIST	EXTRACT parameter list
0	(0)	SIGNED	2	EXTLEN	Parameter list length
2	(2)	BITSTRING	1	EXTFUNCT	Function code = X'82'
3	(3)	UNSIGNED	1	EXTTYPE	Request type: 1 = EXTRACT 2 = ENCRYPT 3 = EXTRACTN 4 = REPLACE 5 = ENVRXTR
4	(4)	UNSIGNED	1	EXTVER	Version number 0 or 1
5	(5)	BITSTRING	1	EXTFLAGS	Flag byte
		1... ..		EXTBRNCH	Branch entry requested
		.1.. ..		EXTENX	0 => ENTITY is specified and 1 => ENTITYX is specified
		..1.		EXTPROP	RACROUTE REQUEST=EXTRACT issued as a result of automatic direction
		...1 1111		*	Reserved
6	(6)	SIGNED	2	EXTOFF	Offset to variable part of list
8	(8)	ADDRESS	4	EXTENT	Address of ENTITY
8	(8)	ADDRESS	4	EXTENTX	Address of ENTITYX
12	(C)	CHARACTER		EXTEND	End of fixed part of parameter

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
12	(C)	STRUCTURE	12	EXTEXT	TYPE=EXTRACT parameter list for release 1.6 and 1.7
12	(C)	ADDRESS	4	EXTCLAS	Address of CLASS
16	(10)	SIGNED	4	EXTSP	Subpool for workarea
20	(14)	ADDRESS	4	EXTFLDS	Address of data to be extracted. Data prefixed by 4-byte length
24	(18)	CHARACTER		EXTEND1	End of fixed part of parameter

RXTL

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
24	(18)	STRUCTURE	20	EXTENB	
24	(18)	ADDRESS	4	EXTSEGM	Address of SEGMENT
28	(1C)	ADDRESS	4	EXTSEGDT	Address of SEGDATA
32	(20)	ADDRESS	4	EXTACEE	Address of ACEE
36	(24)	ADDRESS	4	EXTVOL	Address of VOLSER
40	(28)	BITSTRING	4	EXTSPR	Special processing flags
				EXTRES1	Reserved
		.... 1...		EXTMATCH	Match entity to generic
		.... .1..		EXTGEN	GENERIC flag
		.... ..1.		EXTDRV	DFP flag
		.... ...1		EXTFLAC	FLDACC flag
44	(2C)	CHARACTER		EXTENDX	End of fixed part of parameter

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
12	(C)	STRUCTURE	8	EXTENC	TYPE=ENCRYPT parameter list
12	(C)	ADDRESS	4	EXTDATA	Address of data to be encrypted. Data prefixed by 1-byte length
16	(10)	SIGNED	4	EXTMETH	Encryption method: 1 = RACF DES method 2 = RACF hashing method 3 = Installation defined method 4 = NBS DES method

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
12	(C)	STRUCTURE	8	EXTENVX	TYPE=ENVRXTR parameter list
12	(C)	ADDRESS	4	EXTENVO	Address of data structure to retrieve the security environment
16	(10)	ADDRESS	4	EXTACE2	Address of ACEE

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	*	FIELDS	Map of FIELDS parameter
0	(0)	SIGNED	4	FLDCNT	Number of field names
4	(4)	CHARACTER	8	FLDNAME (*)	Individual field names

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	*	SEGDATS	Map SEGDATA parameter
0	(0)	SIGNED	4	SEGFLN	Size of data
4	(4)	CHARACTER	*	SEGFDTA	Segment data

Constants

Len	Type	Value	Name	Description
2	DECIMAL	24	EXTEXTL	Length of release 1.6 or 1.7 parameters
2	DECIMAL	44	EXTRL	Length of release 1.8 or 1.9 parameters
2	DECIMAL	20	EXTENCL	Length of encrypt parameters

Cross Reference

Name	Hex Offset	Hex Value	Level
EXTACEE	20		2
| EXTACE2	10		2
EXTBRNCH	5	80	3
EXTCLAS	C		2
EXTDATA	C		2
EXTDRV	28	02	3
EXTENB	18		1
EXTENC	C		1
EXTEND	C		2
EXTENDX	2C		2
EXTEND1	18		2
EXTENT	8		2
EXTENTX	8		3
| EXTENVO	C		2
| EXTENVX	C		1
EXTENX	5	40	3
EXTEXT	C		1
EXTFLAC	28	01	3
EXTFLAGS	5		2
EXTFLDS	14		2
EXTFUNCT	2		2
EXTGEN	28	04	3
EXTLEN	0		2
EXTLIST	0		1
EXTMATCH	28	08	3
EXTMETH	10		2
EXTOFF	6		2
EXTPROP	5	20	3
EXTRES1	28		3
EXTSEGDT	1C		2
EXTSEGM	18		2
EXTSP	10		2
EXTSPR	28		2
EXTTYPE	3		2
EXTVER	4		2
EXTVOL	24		2
FIELDS	0		1
FLDCNT	0		2
FLDNAME	4		2
SEGDATS	0		1
SEGFDTA	4		2
SEGFLEN	0		2

RXTW: RACROUTE REQUEST=EXTRACT Result Area Mapping

Common Name:	RACROUTE REQUEST=EXTRACT result area mapping		
Macro ID:	IRRPRXTW		
DSECT Name:	EXTWKEA, EXTWANM, EXTWABG, EXTWADP, EXTWARM, EXTWAS1, EXTWAS2, EXTWAS3, EXTWAS4, EXTWAAC		
Owning Component:	Resource Access Control Facility (SC1BN)		
Eye-Catcher ID:	None		
Storage Attributes:	Subpool	229	(or subpool supplied by issuer of RACROUTE REQUEST=EXTRACT)
	Key	0	(or as determined by the subpool of the issuer of RACROUTE REQUEST=EXTRACT)
Size:	Section	Size	
	1	72 bytes	
	2	For Release 1.7 - 8 bytes For Release 1.8 and subsequent releases - varies	
	3 through 11	Work attributes data - 4-byte field followed by variable data	
Created by:	RACROUTE REQUEST=EXTRACT		
Pointed to by:	Register 1 after RACROUTE REQUEST=EXTRACT has been issued		
Serialization:	None		
Function:	Maps the fixed portion of the results from RACROUTE REQUEST=EXTRACT and the work attributes data that is extracted from the ACEE		

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	72	EXTWKEA	
0	(0)	SIGNED	4	EXTWPLEN	
0	(0)	UNSIGNED	1	EXTWSP	Area subpool
1	(1)	UNSIGNED	3	EXTWLN	Area length
4	(4)	SIGNED	2	EXTWOFF	Offset from EXTWKEA to start of optional returned fields
6	(6)	CHARACTER	1	EXTFLAG	Flag Byte
		1... ..		EXTGENRC	Generic profile retrieved for TYPE=EXTRACTN
		.111 1111		*	Reserved bits
7	(7)	UNSIGNED	1	EXTWVERS	Version of Result Area
8	(8)	SIGNED	2	EXTWAOFF	Offset from EXTWKEA to start of optional Work Attributes area when extracting from the ACEE
10	(A)	CHARACTER	6	*	Reserved
16	(10)	CHARACTER	3	EXTWPRLN	User's or default primary language
19	(13)	CHARACTER	3	EXTWSELN	User's or default secondary language
22	(16)	CHARACTER	1	EXTWPRUS	Whether the reported primary language is defined in the user profile (U) or is the installation default (S)
23	(17)	CHARACTER	1	EXTWSEUS	Whether the reported secondary language is defined in the user profile (U) or is the installation default (S)
24	(18)	CHARACTER	8	EXTWUID	Specified or current user's id
32	(20)	CHARACTER	8	EXTWGRP	Specified user's default group or current user's current connect group
40	(28)	CHARACTER	32	*	Reserved
72	(48)	CHARACTER		EXTWEND	End of fixed part

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
72	(48)	STRUCTURE	8	EXTWOPT	Optional fields for TYPE=EXTRACT or EXTRACTN and Release 1.8 or later
72	(48)	CHARACTER	8	EXTWPSWD	Encoded password for TYPE=EXTRACT and Release 1.7 or earlier

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	*	EXTWANM	WORKATTR - User name
0	(0)	SIGNED	4	EXTWNMLN	Length of user name
4	(4)	CHARACTER	*	EXTWNAME	User name for SYSOUT

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	*	EXTWABG	WORKATTR - Building name
0	(0)	SIGNED	4	EXTWBDLN	Length of building name
4	(4)	CHARACTER	*	EXTWBLDG	Building name for delivery

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	*	EXTWADP	WORKATTR - Department name
0	(0)	SIGNED	4	EXTWDTLN	Length of department name
4	(4)	CHARACTER	*	EXTWDEPT	Department name for delivery

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	*	EXTWARM	WORKATTR - Room name
0	(0)	SIGNED	4	EXTWRMLN	Length of room name
4	(4)	CHARACTER	*	EXTWROOM	Room for delivery

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	*	EXTWAS1	WORKATTR - SYSOUT line 1
0	(0)	SIGNED	4	EXTWS1LN	Length of SYSOUT line 1
4	(4)	CHARACTER	*	EXTWSYS1	SYSOUT delivery line 1

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	*	EXTWAS2	WORKATTR - SYSOUT line 2
0	(0)	SIGNED	4	EXTWS2LN	Length of SYSOUT line 2
4	(4)	CHARACTER	*	EXTWSYS2	SYSOUT delivery line 2

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	*	EXTWAS3	WORKATTR - SYSOUT line 3
0	(0)	SIGNED	4	EXTWS3LN	Length of SYSOUT line 3
4	(4)	CHARACTER	*	EXTWSYS3	SYSOUT delivery line 3

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	*	EXTWAS4	WORKATTR - SYSOUT line 4

RXTW

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	SIGNED	4	EXTWS4LN	Length of SYSOUT line 4
4	(4)	CHARACTER	*	EXTWSYS4	SYSOUT delivery line 4

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	*	EXTWAAC	WORKATTR - Account number
0	(0)	SIGNED	4	EXTWATLN	Length of account number
4	(4)	CHARACTER	*	EXTWACCT	Account number

Cross Reference

Name	Hex Offset	Hex Value	Level
EXTFLAG	6		2
EXTGENRC	6	80	3
EXTWAAC	0		1
EXTWABG	0		1
EXTWACCT	4		2
EXTWADP	0		1
EXTWANM	0		1
EXTWAOFF	8		2
EXTWARM	0		1
EXTWAS1	0		1
EXTWAS2	0		1
EXTWAS3	0		1
EXTWAS4	0		1
EXTWATLN	0		2
EXTWBDLN	0		2
EXTWBLDG	4		2
EXTWDEPT	4		2
EXTWDTLN	0		2
EXTWEND	48		2
EXTWGRP	20		2
EXTWKEA	0		1
EXTWLN	1		3
EXTWNAME	4		2
EXTWNMLN	0		2
EXTWOFF	4		2
EXTWOPT	48		1
EXTWPLEN	0		2
EXTWPRLN	10		2
EXTWPRUS	16		2
EXTWPSWD	48		2
EXTWRMLN	0		2
EXTWROOM	4		2
EXTWSELN	13		2
EXTWSEUS	17		2
EXTWSP	0		3
EXTWSYS1	4		2
EXTWSYS2	4		2
EXTWSYS3	4		2
EXTWSYS4	4		2
EXTWS1LN	0		2
EXTWS2LN	0		2
EXTWS3LN	0		2
EXTWS4LN	0		2
EXTWUID	18		2
EXTWVERS	7		2

SAFP: SAF Router Parameter List

Common Name: System authorization facility (SAF) router parameter list
Macro ID: ICHSAFP
DSECT Name: SAFP
Owning Component: Resource Access Control Facility (SC1BN)
Eye-Catcher ID: None
Storage Attributes: Subpool Determined by caller
 Key Determined by caller
 Residency Determined by caller
Size: 104 bytes
Created by: RACROUTE macro
Pointed to by: RACROUTE MF=E or MF=S places the address in R1 before invoking SAF
Serialization: None
Function: Serves as the descriptor for data passed to the SAF router by the RACROUTE macro

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	104	SAFP	
0	(0)	SIGNED	4	SAFPRRET	RACF or installation exit return code
4	(4)	SIGNED	4	SAFPRREA	RACF or installation exit reason code
8	(8)	SIGNED	2	SAFPPLN	Length of SAFP parameter list (in bytes)
10	(A)	UNSIGNED	1	SAFPVRRL	RACF version/release list indicator (values defined below)
11	(B)	CHARACTER	1	*	Reserved
12	(C)	SIGNED	2	SAFPREQT	Request number (values defined below)
14	(E)	BITSTRING	1	SAFPFLGS	Flags
		1... ..		SAFPMSGR	1 - Message return requested
		.1.. ..		SAFPR18	1 - Release 1.8 or higher function was requested
		..1.		SAFPSUPP	1 - Message suppression on
		...1		SAFPDCPL	1 - DECOUPL=yes
		.... 1...		SAFPSYST	1 - SYSTEM=yes
		.... .111		*	Reserved
15	(F)	UNSIGNED	1	SAFPMSPL	Subpool to be used for messages to be returned, if SAFPMSGR is on
16	(10)	ADDRESS	4	SAFPREQR	Requestor name address (points to an 8-byte character field)
20	(14)	ADDRESS	4	SAFPSUBS	Subsystem name address (points to an 8-byte character field)
24	(18)	ADDRESS	4	SAFPWA	SAF work area address
28	(1C)	ADDRESS	4	SAFPMSAD	Upon return, will contain the address of the message(s) returned from the invoked function (if SAFPMSGR is on), or zero if no message is returned
32	(20)	ADDRESS	4	*	Reserved
36	(24)	SIGNED	4	SAFPRACP	Offset to RACF related parameter list from base address of SAFP
40	(28)	SIGNED	4	SAFPSFRC	SAF return code
44	(2C)	SIGNED	4	SAFPSFRS	SAF reason code
48	(30)	SIGNED	2	SAFPPLNX	Length of SAFP extension parameter list (in bytes)
50	(32)	SIGNED	2	SAFPOLEN	Length of original plist
52	(34)	ADDRESS	4	SAFPRETD	Address of returned data
56	(38)	ADDRESS	4	SAFPFLAT	Address of flat parameter
60	(3C)	ADDRESS	4	SAFPECB1	Address of ECB1
64	(40)	ADDRESS	4	SAFPECB2	Address of ECB1
68	(44)	ADDRESS	4	SAFPREV	Address of previous flat list

SAFP

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
72	(48)	ADDRESS	4	SAFPNEXT	Address of next flat list
76	(4C)	ADDRESS	4	SAFPORIG	Address of original list
80	(50)	SIGNED	4	SAFPFLEN	Flat parameter list length
84	(54)	SIGNED	4	SAFPUSRW	User Word - Identifier
88	(58)	ADDRESS	4	SAFPFREE	Address of pre-processing exit
92	(5C)	ADDRESS	4	SAFPPOST	Address of post-processing exit
96	(60)	ADDRESS	4	SAFPSYNC	Address of synchronous ECB
100	(64)	UNSIGNED	1	SAFPSKEY	Requestor's storage key
101	(65)	UNSIGNED	1	SAFPMODE	Requestor's addressing mode
102	(66)	UNSIGNED	1	SAFPSBYT	Status Byte
		1... ..		SAFPGCS	1 - Request came from GCS
		.1.. ..		SAFPSFSU	1 - SFS user accessing own file or directory (used for SFSAUTOACCESS processing)
103	(67)	UNSIGNED	1	*	Reserved
104	(68)	CHARACTER		*	

Constants

Len	Type	Value	Name	Description
4	DECIMAL	104	SAFPLEN	
CONSTANTS FOR REQUEST NUMBER VALUES				
1	DECIMAL	1	SAFAU	RACHECK - authorization function
1	DECIMAL	2	SAFPFAU	FRACHECK - Fast authorization function
1	DECIMAL	3	SAFPLIS	RACLIST - in-storage list building function
1	DECIMAL	4	SAFPDEF	RACDEF - definition function
1	DECIMAL	5	SAFPVER	RACINIT - verification function
1	DECIMAL	6	SAFPEXT	RACXTRT - extract function
1	DECIMAL	7	SAFPDIR	RACDAUTH - directed authorization function
1	DECIMAL	8	SAFPKMP	RACKSRV - security token services
1	DECIMAL	9	SAFPVERX	RACROUTE REQUEST=VERIFYX
1	DECIMAL	10	SAFPTKXT	RACKSRV - extract token services
1	DECIMAL	11	SAFPTBLD	RACINIT - token build services
1	DECIMAL	12	SAFPXTB	RACXTRT - branch entry
1	DECIMAL	13	SAFPAUD	RACAUDIT - audit service
1	DECIMAL	14	SAFPSTAT	RACSTAT - status service
1	DECIMAL	15	SAFPSIGN	SIGNON request
1	DECIMAL	16	SAFPTXMP	Token map request for XMREQ=YES is specified.
1	DECIMAL	17	SAFPTXXT	Token extract request for XMREQ=YES is specified.
Constants for TOKENBLD request				
1	DECIMAL	8	SAFPTBRC	SAFPTBLD request SAF r.c
The following reason codes are used:				
1	DECIMAL	0	SAFPTBUT	TOKNOUT missing - 9C7 SAF abend
1	DECIMAL	4	SAFPTBUL	TOKNOUT length too small: on return the length field in the token has the correct length - 9C7 SAF abend
1	DECIMAL	8	SAFPTBTK	Invalid token data - 9C7 SAF abend
1	DECIMAL	12	SAFPTBSL	STOKEN length too small: on return the length field in the token has the correct length - 9C7 SAF abend
1	DECIMAL	16	SAFPTBUB	TOKNOUT length too large: on return the length field in the token has the correct length
1	DECIMAL	20	SAFPTBSB	STOKEN length too large: on return the length field in the token has the correct length
1	DECIMAL	24	SAFPTBV0	A token passed in did not have its version set - 9C7 SAF abend
1	DECIMAL	28	SAFPTBIL	TOKNIN length too small: on return the length field in the token has the correct length - 9C7 SAF abend
1	DECIMAL	28	SAFPTBIB	TOKNIN length too large: on return the length field in the token has the correct length
Constants for VERIFYX request				
1	DECIMAL	60	SAFPVXRC	SAFPVERX request SAF r.c

Len	Type	Value	Name	Description
The following reason codes are used:				
1	DECIMAL	0	SAFPVXNR	RACF not available
1	DECIMAL	4	SAFPVXOP	Old Password required
1	DECIMAL	8	SAFPVXUS	Userid required
1	DECIMAL	12	SAFPVXEF	ESTAE failed
1	DECIMAL	16	SAFPVXUT	TOKNOUT keyword missing - 9C7 SAF abend
1	DECIMAL	20	SAFPVXUL	TOKNOUT length too small: on return the length field in the token has the right length - 9C7 SAF abend
1	DECIMAL	24	SAFPVXTK	Invalid token data - 9C7 SAF abend
1	DECIMAL	28	SAFPVXSL	STOKEN length too small: on return the length field in the token has the right length - 9C7 SAF abend
1	DECIMAL	32	SAFPVXUB	TOKNOUT length too large: on return the length field in the token has the right length
1	DECIMAL	36	SAFPVXSB	STOKEN length too large: on return the length field in the token has the right length
1	DECIMAL	40	SAFPVXV0	A token passed in did not have its version set - 9C7 SAF abend
1	DECIMAL	44	SAFPVXIL	TOKNIN length too small: on return the length field in the token has the correct length - 9C7 SAF abend
1	DECIMAL	48	SAFPVXIB	TOKNIN length too large: on return the length field in the token has the correct length
Constants for VERIFY request				
1	DECIMAL	64	SAFPVYRC	SAFPVER request SAF r.c
The following reason codes are used:				
1	DECIMAL	0	SAFPVYTK	Invalid token data - 9C7 SAF abend
1	DECIMAL	4	SAFPVYUL	TOKNIN length too small: on return the length field in the token has the right length - 9C7 SAF abend
1	DECIMAL	8	SAFPVYSL	STOKEN length too small: on return the length field in the token has the right length - 9C7 SAF abend
1	DECIMAL	12	SAFPVYUB	TOKNIN length too large: on return the length field in the token has the right length
1	DECIMAL	16	SAFPVYSB	STOKEN length too large: on return the length field in the token has the right length
1	DECIMAL	20	SAFPVYV0	A token passed in did not have its version set - 9C7 SAF abend
Constants for SIGNON request				
1	DECIMAL	12	SAFPSGRC	SAFPSIGN request SAF r.c
The following reason codes are used:				
1	DECIMAL	0	SAFPSGNE	Environment error: No ESA support for SIGNON
1	DECIMAL	12	SAFPSGOL	TOKNOUT length too small: on return the length field in the token has the right length - 9C7 SAF abend
1	DECIMAL	4	SAFPSGOT	TOKNOUT length too large: on return the length field in the token has the right length
Constants for version/release				
1	DECIMAL	6	SAFPCURR	Current level of RACF
1	DECIMAL	0	SAFPRL19	Indicates RACF 1.9.0
1	DECIMAL	2	SAFPRL192	Indicates RACF 1.9.2
1	DECIMAL	3	SAFPRL21	Indicates RACF 2.1.0
1	DECIMAL	4	SAFPRL22	Indicates RACF 2.2.0
1	DECIMAL	5	SAFPRL23	Indicates RACF 2.3.0
1	DECIMAL	6	SAFPRL24	Indicates RACF 2.4.0
1	DECIMAL	7	SAFPRL26	Indicates RACF 2.6.0

SAFP

Cross Reference

Name	Hex Offset	Hex Value	Level
SAFP	0		1
SAFPDCPL	E	10	3
SAFPECB1	3C		2
SAFPECB2	40		2
SAFPFLAT	38		2
SAFPFLEN	50		2
SAFPFLGS	E		2
SAFPGCS	66	80	3
SAFPMODE	65		2
SAFPMSAD	1C		2
SAFPMSGR	E	80	3
SAFPMSPL	F		2
SAFPNEXT	48		2
SAFPOLEN	32		2
SAFPORIG	4C		2
SAFPPLN	8		2
SAFPPLNX	30		2
SAFPPOST	5C		2
SAFPFREE	58		2
SAFPREV	44		2
SAFPRACP	24		2
SAFPREQR	10		2
SAFPREQT	C		2
SAFPRETD	34		2
SAFPRREA	4		2
SAFPRRET	0		2
SAFPR18	E	40	3
SAFPSBYT	66		2
SAFPSFRC	28		2
SAFPSFRS	2C		2
SAFPSFSU	66	40	3
SAFPSKEY	64		2
SAFPSUBS	14		2
SAFPSUPP	E	20	3
SAFPSYNC	60		2
SAFPSYST	E	08	3
SAFPUSRW	54		2
SAFPVRRL	A		2
SAFPWA	18		2

SAFR: Number of OS/390 UNIX System Services Callable Services

Common Name:	Number of OS/390 UNIX callable services
Macro ID:	IRRPSAFR
DSECT Name:	SAFR
Owning Component:	Resource Access Control Facility (SC1BN)
Eye-Catcher ID:	None
Storage Attributes:	N/A
Size:	4 bytes
Created by:	SAF initialization
Pointed to by:	CVTSAF
Serialization:	None
Function:	Maps the number of OS/390 UNIX callable services

Offsets			Len	Name (Dim)	Description
Dec	Hex	Type			
0	(0)	STRUCTURE	4	SAFR	
0	(0)	UNSIGNED	2	SAFR_SAFSERV	Number of callable services supported by SAF.
2	(2)	UNSIGNED	2	SAFR_SERVICES	Number of callable services available for use.

Constants

Len	Type	Value	Name	Description
2	DECIMAL	4	SAFR#LEN	Length of SAFR

SAFV: SAF Router Vector Table

NOT Programming Interface Information

The following fields are not programming interface information:

- SAFVIDEN
- SAFVVRSN
- SAFVEXIT
- SAFVSAFR

End of NOT Programming Interface Information

Common Name: SAF router vector table
Macro ID: ICHSAFV
DSECT Name: SAFV
Owning Component: Resource Access Control Facility (SC1BN)
Eye-Catcher ID: SAFV (Offset: 0, Length: 4)
Storage Attributes: Subpool 245
 Key 0
 Residency Below 16M
Size: 48 bytes
Created by: SAF initialization
Pointed to by: CVTSAF
Serialization: None
Function: Maps the SAF router vector table

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	48	SAFV	SAF vector table
0	(0)	CHARACTER	4	SAFVIDEN	Identifying literal for dumps 'SAFV'
4	(4)	UNSIGNED	1	SAFVVRSN	Table version number - '00'X
5	(5)	CHARACTER	3	*	Reserved
8	(8)	ADDRESS	4	SAFVEXIT	Address of the SAF router exit routine (ICHRTX00)
12	(C)	ADDRESS	4	SAFVSAFR	Address of the SAF router routine (ICHSFR00)
16	(10)	ADDRESS	4	SAFVRACR	Address of the RACF front-end routine (ICHRFR00), set by RACF initialization (ICHSEC00) if RACF is installed
20	(14)	ADDRESS	4	SAFVRACT	Address of the RACF front-end table (ICHRFR01), set by RACF initialization (ICHSEC00) if RACF is installed
24	(18)	ADDRESS	4	SAFVEXUS	Reserved for installation exit use
28	(1C)	ADDRESS	4	SAFVRAC2	Address of the RACF front end routine for OMVS (IRRRFR10)
32	(20)	ADDRESS	4	SAFVXIT2	Address of the SAF router exit routine for OMVS (IRRSXT00)
36	(24)	SIGNED	4	*(3)	Reserved
48	(30)	CHARACTER		*	Ensure doubleword length

Constants

Len	Type	Value	Name	Description
4	DECIMAL	48	SAFVLEN	Length of the SAF router vector table
4	CHARACTER	SAFV	SAFVIDC	Literal value to be stored in SAFVIDEN
1	DECIMAL	1	SAFVVNC	Current value of SAF version number stored in SAFVVRSN
1	DECIMAL	0	SAFVVN0	Original value of SAF version number stored in SAFVVRSN
1	DECIMAL	1	SAFVVN1	Value of SAF version number for OMVS stored in SAFVVRSN

Cross Reference

Name	Hex Offset	Hex Value	Level
SAFV	0		1
SAFVEXIT	8		2
SAFVEXUS	18		2
SAFVIDEN	0		2
SAFVRACR	10		2
SAFVRACT	14		2
SAFVRAC2	1C		2
SAFVSAFR	C		2
SAFVVRSN	4		2
SAFVXIT2	20		2

SECUR: OS/390 Security Context

- | **Common Name:** OS/390 Security Context
- | **Macro ID:** IRRSECUR
- | **DSECT Name:** IRR_SECURITY_CONTEXT
- | **Owning Component:** Resource Access Control Facility (SC1BN)
- | **Eye-Catcher ID:** None
- | **Storage Attributes:** Subpool Determined by invoker
 | Key Any
 | Residency Any
- | **Size:** Version dependent
- | **Created by:** RRS context services
- | **Pointed to by:** N/A
- | **Serialization:** Through RRS context services APIs
- | **Function:** Maps the identity of the user associated with a particular transaction

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	0	SECUR	
0	(0)	UNSIGNED	4	SECUR_Version	Version number
4	(4)	CHARACTER	8	SECUR_Creator	Name of creating component (such as RACF)
12	(C)	UNSIGNED	4	SECUR_ACEE_Alet	Alet for ACEE
16	(10)	ADDRESS	4	SECUR_ACEE_Address	Pointer to user's ACEE
20	(14)	CHARACTER	8	SECUR_userid	User ID padded with blanks

Constants

Len	Type	Value	Name	Description
32	CHARACTER	See note.	SECUR_Context_Key	Context key identifier
4	DECIMAL	1	SECUR_Version_1	Initial version
4	DECIMAL	28	SECUR_Version_1_Length	Length of area
4	DECIMAL	1	SECUR_Current_Version	Current version

Note: The value for SECUR_Context_Key is IRR_SECURITY_CONTEXT.

SGNPL: RACROUTE REQUEST=SIGNON Parameter List (Request Section)

Common Name: Request-specific portion of the RACROUTE REQUEST=SIGNON parameter list

Macro ID: IRRSGNPL

DSECT Name: SIGENVN, SIGPLIST

Owning Component: Resource Access Control Facility (SC1BN)

Eye-Catcher ID: None

Storage Attributes: Subpool Determined by caller
Key Determined by caller
Residency Determined by caller

Size: 48

Created by: RACROUTE REQUEST=SIGNON macro

Pointed to by: Address of SAFR plus offset in SAFPRACP

Serialization: None

Function: Maps the request-specific portion of the parameter list passed to the RACROUTE REQUEST=SIGNON routine

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	48	SIGPLIST	
0	(0)	SIGNED	2	SIGPLEN	SIGNON parameter list length
2	(2)	UNSIGNED	1	SIGTYPE	Subfunction Type
3	(3)	UNSIGNED	1	SIGLTYPE	List Type
4	(4)	ADDRESS	4	SIGAPPLP	Address of APPL name buffer
8	(8)	ADDRESS	4	SIGPOEP	Address of POE name buffer
12	(C)	ADDRESS	4	SIGACEPP	Address of ACEE
16	(10)	ADDRESS	4	SIGGRUPP	Address of GROUP name buffer
20	(14)	ADDRESS	4	SIGSECLP	Address of SECLABEL buffer
24	(18)	ADDRESS	4	SIGENVRO	Address of output ENVR data
28	(1C)	ADDRESS	4	SIGOTKP	Address of TOKNOUT
32	(20)	ADDRESS	4	SIGUSRDP	Address of USERID name buffer
36	(24)	ADDRESS	4	SIGVEXIT	Address of VERBEXIT routine
40	(28)	ADDRESS	4	SIGENVRI	Address of input ENVR data
44	(2C)	ADDRESS	4	SIGPOENP	Address of POENET name buffer, 1 byte length plus 1-8 byte network name, or zero if not specified.

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	14	SIGENVN	ENVR OBJECT DATA STRUCTURE
0	(0)	UNSIGNED	4	SIGENLEN	ENVR OBJECT LENGTH
4	(4)	UNSIGNED	4	SIGENSLN	ENVR OBJECT STORAGE AREA LENGTH
8	(8)	ADDRESS	4	SIGENSAD	ENVR OBJECT STORAGE AREA ADDRESS
12	(C)	UNSIGNED	1	SIGENSPP	ENVR OBJECT STORAGE AREA SUBPOOL
13	(D)	UNSIGNED	1	SIGENSKY	ENVR OBJECT STORAGE AREA KEY

SGNPL

Cross Reference

Name	Hex Offset	Hex Value	Level
SIGACEPP	C		2
SIGAPPLP	4		2
SIGENLEN	0		2
SIGENSAD	8		2
SIGENSKY	D		2
SIGENSLN	4		2
SIGENSSP	C		2
SIGENV D	0		1
SIGENVRI	28		2
SIGENVRO	18		2
SIGGRUPP	10		2
SIGLTYPE	3		2
SIGOTKP	1C		2
SIGPLIST	0		1
SIGPOENP	2C		2
SIGPLEN	0		2
SIGPOEP	8		2
SIGSECLP	14		2
SIGTYPE	2		2
SIGUSRDP	20		2
SIGVEXIT	24		2

SGX1P: RACROUTE REQUEST=SIGNON Parameter List Mapping

Common Name: RACROUTE REQUEST=SIGNON verbexit parameter list mapping
Macro ID: ICHSGX1P
DSECT Name: None
Owning Component: Resource Access Control Facility (SC1BN)
Eye-Catcher ID: None
Storage Attributes: Subpool 230
 Key 2
 Residency Above 16MB
Size: 20
Created by: RACROUTE REQUEST=SIGNON macro
Pointed to by: Register 1
Serialization: None
Function: Maps the necessary fields to be passed to the verbexit routine so the verbexit routine can issue the ALLOCATE for the SIGNOFF TP to remove the corresponding user entries from the signed_on_to list at the partner LU

Offsets			Len	Name (Dim)	Description
Dec	Hex	Type			
0	(0)	STRUCTURE	20	SNGFP	
0	(0)	ADDRESS	4	SNGFREQC_ADDR	ADDRESS OF REQUEST CODE
4	(4)	ADDRESS	4	SNGFLLU_ADDR	ADDRESS OF LOCAL_LU_NAME
8	(8)	ADDRESS	4	SNGFPLU_ADDR	ADDRESS OF PARTNER_LU_NAME UP TO 17 CHARACTERS, NETNAME.LUNAME
12	(C)	ADDRESS	4	SNGFGDLN_ADDR	ADDRESS OF GDS VARIABLE LENGTH
16	(10)	ADDRESS	4	SNGFGDVA_ADDR	ADDRESS OF GDS VARIABLE
		1...		SNGF_LAST_PARM	END OF PARM LIST INDICATOR

Constants

Len	Type	Value	Name	Description
4	DECIMAL	20	SNGFPLEN	

STAT: RACROUTE REQUEST=STAT Parameter List (Request Section)

Common Name: Request-specific portion of the RACROUTE REQUEST=STAT parameter list

Macro ID: None

DSECT Name: None

Owning Component: Resource Access Control Facility (SC1BN)

Eye-Catcher ID: None

Storage Attributes: Subpool Determined by caller
Key Determined by caller
Residency Determined by caller

Size: Varies

Created by: RACROUTE REQUEST=STAT macro

Pointed to by: Address of SAFR plus offset in SAFPRACP

Serialization: None

Function: Maps the request-specific portion of the parameter list passed to the RACROUTE REQUEST=STAT routine

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	20	STATPARAM	STAT parameters. If RELEASE specified is 2.1 or earlier, the length of this parameter list is 12, because the COPY and COPYLEN fields will not be defined.
0	(0)	ADDRESS	4	STATCLAS	Address of class entry
4	(4)	ADDRESS	4	STATCDTP	Output: address of class entry in the CDT
8	(8)	SIGNED	4	*	Present only if RACROUTE is used
8	(8)	UNSIGNED	2	STATLEN	Length of this parameter list
10	(A)	CHARACTER	2	*	Reserved
12	(C)	ADDRESS	4	STATCPYA	Address of the area to hold the CDT entry (COPY)
16	(10)	UNSIGNED	4	STATCPYL	Length of the COPY area (COPYLEN)

Cross Reference

Name	Hex Offset	Hex Value	Level
STATCDTP	4		2
STATCLAS	0		2
STATCPYA	C		2
STATCPYL	10		2
STATLEN	8		3
STATPARAM	0		1

TSRV: RACROUTE REQUEST=TOKENMAP/TOKENXTR Parameter List (Request Section)

Common Name: Request-specific portion of the RACROUTE REQUEST=TOKENMAP/TOKENXTR parameter list

Macro ID: None

DSECT Name: None

Owning Component: Resource Access Control Facility (SC1BN)

Eye-Catcher ID: None

Storage Attributes: Subpool Determined by caller
 Key Determined by caller
 Residency Determined by caller

Size: Varies

Created by: RACROUTE REQUEST=TOKENMAP/TOKENXTR macro

Pointed to by: Address of SAFP plus offset in SAFPRACP

Serialization: None

Function: Maps the request-specific portion of the parameter list passed to the RACROUTE REQUEST=TOKENMAP/TOKENXTR routine

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	24	TSRVPARM	TOKENMAP/TOKENXTR parameters
0	(0)	ADDRESS	4	TSRVTKIN	TOKNIN pointer
4	(4)	ADDRESS	4	TSRVACEE	ACEE pointer
8	(8)	ADDRESS	4	TSRVTKOT	TOKNOUT pointer
12	(C)	BITSTRING	1	TSRVFLGS	Flag byte
		1...		TSRVFMT	Format of output token for TOKENMAP: 1 = encrypt, 0 = decrypt
		.111 1111		*	Reserved
13	(D)	CHARACTER	1	*	Reserved
14	(E)	UNSIGNED	2	TSRVLEN	Length of this parameter list
16	(10)	CHARACTER	8	*	Reserved

Cross Reference

Name	Hex Offset	Hex Value	Level
TSRVACEE	4		2
TSRVFLGS	C		2
TSRVFMT	C	80	3
TSRVLEN	E		2
TSRVPARM	0		1
TSRVTKIN	0		2
TSRVTKOT	8		2

WORK

WORK: OS/390 UNIX System Services Work Area for SAF and RACF

Common Name:	OS/390 UNIX work area for SAF and RACF		
Macro ID:	IRRPWORK		
DSECT Name:	WORK		
Owning Component:	Resource Access Control Facility (SC1BN)		
Eye-Catcher ID:	None		
Storage Attributes:	Subpool	N/A	
	Key	0	
	Residency	N/A	
Size:	1024 bytes		
Created by:	Invoker of OS/390 UNIX security functions		
Pointed to by:	Common SAF/RACF parameter list for OS/390 UNIX security functions (IRRPCOMP)		
Serialization:	None		
Function:	Maps the 1024-byte work area for use by the callable services routers and the IRRSXT00 exit		

Offsets			Len		
Dec	Hex	Type		Name (Dim)	Description
0	(0)	STRUCTURE	1024	WORK	OS/390 UNIX SAF/RACF work area.
The following 16 bytes are reserved for use by the User Exit and can only be stored into once by system code. That store is SAF storing zero in the WORK_USER_SIGNAL field to tell the User Exit that it is being invoked before the security product (RACF). After the first call, the User Exit should make that field nonzero (SAF does not) so that it knows it is being invoked after RACF.					
0	(0)	CHARACTER	16	WORK_USER_PERM	For User Exit's use only.
0	(0)	UNSIGNED	4	WORK_USER_SIGNAL	0-first time User Exit called
4	(4)	CHARACTER	12	*	Reserved for User Exit.
The following 944 bytes are used by both RACF and the User Exit					
16	(10)	CHARACTER	944	WORK_RACF_WORKA	RACF work area.
16	(10)	CHARACTER	136	WORK_USER_WORKA	User work area.
152	(98)	CHARACTER	808	*	
The following 64 bytes are reserved for the SAF Router for future use.					
960	(3C0)	CHARACTER	64	*	Reserved for future use.

Constants

Len	Type	Value	Name	Description
Length Constant				
4	DECIMAL	1024	WORK_LEN	Constant WORK length

Cross Reference

Name	Hex Offset	Hex Value	Level
WORK	0		1
WORK_RACF_WORKA	10		2
WORK_USER_PERM	0		2
WORK_USER_SIGNAL	0		3
WORK_USER_WORKA	10		3

Glossary

A

access. The ability to obtain the use of a protected resource.

access authority. An authority related to a request for a type of access to protected resources. In RACF, the access authorities are NONE, EXECUTE, READ, UPDATE, CONTROL, and ALTER.

access list. Synonym for standard access list. See also *conditional access list*.

accessor environment element (ACEE). A description of the current user, including user ID, current connect group, user attributes, and group authorities. An ACEE is constructed during user identification and verification.

ACEE. See *accessor environment element*.

ADSP. See *automatic data set protection*.

Advanced Program-to-Program Communication (APPC). A set of interprogram communication services that support cooperative transaction processing in an SNA network. APPC is the implementation, on a given system, of SNA's logical unit type 6.2. See also *logical unit type 6.2* and *APPC/MVS*.

APPC. See *Advanced Program-to-Program Communication*.

APPC/MVS. The implementation of SNA's LU 6.2 and related communication services in the MVS base control program.

| **appropriate privileges.** In OS/390 UNIX, superuser authority. A trusted or privileged attribute is an attribute associated with a started procedure address space and with any process associated with the address space.

attribute. See *user attribute*.

AUDIT request. The issuing of the RACROUTE macro with REQUEST=AUDIT specified. An AUDIT request is a general-purpose security-audit request that can be used to audit a specified resource name and action.

AUTH request. The issuing of the RACROUTE macro with REQUEST=AUTH specified. The primary function of an AUTH request is to check a user's authorization to a RACF-protected resource or function. The AUTH request replaces the RACHECK function. See also *authorization checking*.

authority. The right to access objects, resources, or functions. See *access authority*, *class authority*, and *group authority*.

authorization checking. The action of determining whether a user is permitted access to a protected resource. RACF performs authorization checking as a result of a RACROUTE REQUEST=AUTH or RACROUTE REQUEST=FASTAUTH.

automatic data set protection (ADSP). A user attribute that causes all permanent data sets created by the user to be automatically defined to RACF with a discrete RACF profile.

B

BFS. Byte file system.

byte file system (BFS). On VM, a file system for OpenEdition POSIX files that is organized in a tree-like structure of directories. Each directory can contain files or other directories.

C

cache structure. A coupling facility structure that contains data accessed by systems in a sysplex. MVS provides a way for multiple systems to determine the validity of copies of the cache structure data in their local storage.

| **callable service.** In OS/390 UNIX, a request by an active process for a service. Synonymous with *syscall*, *system call*.

category. See *security category*.

CDT. See *class descriptor table*.

child. See *child process*.

child process. A process, created by a parent process, that shares the resources of the parent process to execute a request. Contrast with *parent process*. See also *fork*, *process*.

class. A collection of RACF-defined entities (users, groups, and resources) with similar characteristics. The class names are USER, GROUP, DATASET, and the classes that are defined in the class descriptor table.

class authority (CLAUTH). An authority enabling a user to define RACF profiles in a class defined in the class descriptor table. A user can have class authorities to one or more classes.

class descriptor table (CDT). A table consisting of an entry for each class except the USER, GROUP, and DATASET classes. The table is generated by executing the ICHERCDE macro once for each class. The class descriptor table contains both the IBM provided classes and also the installation defined classes.

CLAUTH. See *class authority*.

command interpreter. A program that reads the commands that you type in and then executes them. When you are typing commands into the computer, you are actually typing input to the command interpreter. The interpreter then decides how to perform the commands that you have typed. The shell is an example of a command interpreter. Synonymous with *command language interpreter*. See also *shell*.

command language interpreter. Synonym for *command interpreter*.

conditional access list. An access list within a resource profile that associates a condition with a user ID or group ID and the corresponding access authority. If a user does not otherwise have the requested access, a conditional access-list entry can allow access if the specified condition is true. For example, for program access to data sets, the condition is that the user must be executing the program specified in the access list. See also *access list*. Contrast with *standard access list*.

coupling facility. The hardware element that provides high-speed caching, list processing, and locking functions in a sysplex.

current connect group. The group with which a user is associated, for access-checking purposes, during a terminal session or batch job. If a user does not specify the current connect group on the LOGON command or batch JOB statement, the current connect group is the user's default group. If list-of-groups processing is in effect, a user is associated with all the groups to which the user is connected. An exception would be that, if the current connect group is also found in the global access table, then list-of-groups checking is ignored.

| **current directory.** In OS/390 UNIX, the directory that is active and can be displayed with the **pwd** command. Synonymous with *current working directory*.

| **current working directory.** In OS/390 UNIX, the directory a user is working with. Synonym for *current directory*, *working directory*.

D

Data Facility Product (DFP). A program that isolates applications from storage devices, storage management, and storage device hierarchy management.

data security. The protection of data from unauthorized disclosure, modification, or destruction, whether accidental or intentional.

data set profile. A profile that provides RACF protection for one or more data sets. The information in the profile can include the data-set profile name, profile owner, universal

access authority, access list, and other data. See *discrete profile* and *generic profile*.

data sharing mode. An operational RACF mode that is available when RACF is enabled for sysplex communication. Data sharing mode uses global resource serialization protocol that allows concurrent RACF instances to directly access and change the same database while maintaining data integrity as always. Data sharing mode requires installation of coupling facility hardware.

default group. In RACF, the group specified in a user profile that is the default current connect group.

DEFINE request. The issuing of the RACROUTE macro with REQUEST=DEFINE specified. Also, using a RACF command to add or delete a resource profile causes a DEFINE request. The DEFINE request replaces the RACDEF function.

DFP. See Data Facility Product.

DFP segment. The portion of a RACF profile containing information relating to the users and resources that are managed by the data facility product (DFP).

DIRAUTH request. The issuing of the RACROUTE macro with REQUEST=DIRAUTH specified. A DIRAUTH request works on behalf of the message-transmission managers to ensure that the receiver of a message meets security-label authorization requirements.

directory. (1) A type of file containing the names and controlling information for other files or other directories. (2) A construct for organizing computer files. As files are analogous to folders that hold information, a directory is analogous to a drawer that can hold a number of folders. Directories can also contain subdirectories, which can contain subdirectories of their own. (3) A file that contains directory entries. No two directory entries in the same directory can have the same name. (4) A file that points to files and to other directories. (5) An index used by a control program to locate blocks of data that are stored in separate areas of a data set in direct access storage.

| **directory entry.** In OS/390 UNIX, an object that associates a filename with a file. Several directory entries can associate names with the same file. Synonymous with *link*.

discrete profile. A resource profile that can provide RACF protection for only a single resource. For example, a discrete profile can protect only a single data set or minidisk.

| **dub.** To make an MVS address space known to OS/390 UNIX System Services. Once dubbed, an address space is considered to be a "process." Address spaces created by **fork()** are automatically dubbed when they are created; other address spaces become dubbed if they invoke an OS/390 UNIX service. Dubbing also applies to MVS tasks. A dubbed task is considered a "thread." Tasks created by **pthread_create()** are automatically dubbed threads; other

| tasks are dubbed if they invoke an OS/390 UNIX service. Contrast with *undub*.

E

| **effective group ID.** (1) In OS/390 UNIX, the current group ID, but not necessarily the user's own ID. For example, a user logged in under a particular group ID may be able to change to another group ID. The ID to which the user changes becomes the effective group ID. (2) An attribute of a process that is used in determining various permissions, including file access permissions. This value is subject to change during the process lifetime. See also *group identifier (GID)*.

| **effective user ID.** (1) In OS/390 UNIX, the current user ID, but not necessarily the user's login ID. For example, a user logged in under a login ID may change to another user's ID. The ID to which the user changes becomes the effective user ID until the user switches back to the original login ID. (2) An attribute of a process that is used in determining various permissions, including file access permissions. This value is subject to change during the process lifetime. See also *user identifier (UID)*.

entity. A user, group, or resource (for example, a DASD data set) that is defined to RACF.

| **ENVR object.** A transportable object describing the security environment that can be used to re-create the security environment without accessing the RACF database.

erase-on-scratch. The physical overwriting of data on a DASD data set when the data set is deleted (scratched).

EXTRACT request. The issuing of the RACROUTE macro with REQUEST=EXTRACT specified. An EXTRACT request retrieves or replaces certain specified fields from a RACF profile or encodes certain clear-text (readable) data. The EXTRACT request replaces the RACXTRT function.

F

FASTAUTH request. The issuing of the RACROUTE macro with REQUEST=FASTAUTH specified. The primary function of a FASTAUTH request is to check a user's authorization to a RACF-protected resource or function. A FASTAUTH request uses only in-storage profiles for faster performance. The FASTAUTH request replaces the FRACHECK function. See also *authorization checking*.

| **file owner.** In OS/390 UNIX, the user who has the highest level of access authority to a file, as defined by the file.

| **file security packet (FSP).** In OS/390 UNIX, a control block containing the security data (file's owner UID, owner GID and the permission bits) associated with the file. This data is stored with the file in the OS/390 UNIX System Services file system.

| **fork.** In OS/390 UNIX, to create and start a child process. Forking is similar to creating an address space and attaching. Forking creates a copy of the parent process, including open file descriptors.

FSP. See *file security packet*.

G

GDG. See *generation data group*.

general resource. Any system resource, other than an MVS data set, that is defined in the class descriptor table (CDT). General resources are DASD volumes, tape volumes, load modules, terminals, IMS and CICS transactions, and installation-defined resource classes.

general resource profile. A profile that provides RACF protection for one or more general resources. The information in the profile can include the general resource profile name, profile owner, universal access authority, access list, and other data.

generation data group (GDG). A collection of data sets with the same base name, such as PAYROLL, that are kept in chronological order. Each data set is called a generation data set.

generic profile. A resource profile that can provide RACF protection for one or more resources. The resources protected by a generic profile have similar names and identical security requirements. For example, a generic data-set profile can protect one or more data sets.

GID. See *group identifier*.

global resource serialization. A function that provides an MVS serialization mechanism for resources (typically data sets) across multiple MVS images.

group. A collection of RACF-defined users who can share access authorities for protected resources.

group authority. An authority specifying which functions a user can perform in a group. The group authorities are USE, CREATE, CONNECT, and JOIN.

group data set. A RACF-protected data set in which either the high-level qualifier of the data set name or the qualifier supplied by an installation exit routine is a RACF group name.

group ID. A string of 1 to 8 characters that identifies a group to RACF. The first character must be A through Z, #, \$, or @. The rest can be A through Z, #, \$, @, or 0 through 9.

| **group identifier (GID).** (1) In OS/390 UNIX, a unique number assigned to a group of related users. The GID can often be substituted in commands that take a group name as an argument. (2) A non-negative integer, which can be

contained in an object of type *gid_t*, that is used to identify a group of system users. Each system user is a member of at least one group. When the identity of a group is associated with a process, a group ID value is referred to as a real group ID, an effective group ID, one of the (optional) supplementary group IDs, or an (optional) saved set-group-ID.

group profile. A profile that defines a group. The information in the profile includes the group name, profile owner, and users in the group.

H

HFS. See *hierarchical file system*.

hierarchical file system (HFS). Information is organized in a tree-like structure of directories. Each directory can contain files or other directories.

I

ICB. See *inventory control block*.

| **interprocess communication facilities.** In OS/390 UNIX, facilities used by XPG4 to allow two or more processes to communicate.

inventory control block (ICB). The first block in a RACF database. The ICB contains a general description of the database.

IPC. See *interprocess communication facilities*.

K

| **kernel.** (1) The part of OS/390 UNIX System Services that provides support for such services as UNIX I/O, process management and general UNIX functionality.

| **kernel address space.** The address space containing the support for UNIX services. This address space can also be called the kernel. See also *kernel*.

L

| **link pack area (LPA).** (1) In OS/390 UNIX, an area of main storage containing reenterable routines from system libraries. Their presence in main storage saves loading time. (2) An area of virtual storage that contains reenterable routines that are loaded at IPL time and can be used concurrently by all tasks in the system.

LIST request. The issuing of the RACROUTE macro with REQUEST=LIST specified. A LIST request builds in-storage profiles for RACF-defined resources. The LIST request replaces the RACLIST function.

list-of-groups checking. A RACF option that enables a user to access all resources available to all groups of which the user is a member, regardless of the user's current connect group. For any particular resource, RACF allows access based on the highest access among the groups of which the user is a member.

local logical unit (LU). Local LUs are LUs defined to the MVS system; partner LUs are defined to remote systems. It is a matter of point of view. From the point of view of a remote system, LUs defined to that system are local LUs, and those on MVS are the partner LUs.

A partner LU might or might not be on the same system as the local LU. When both LUs are on the same system, the LU through which communication is initiated is the local LU, and the LU through which communication is received is the partner LU.

| **local node.** Whether a node is perceived as local or remote depends on the point of view. As an example, consider two RRSF nodes that are logically connected: MVSA and MVSB. From MVSA's point of view, MVSA is the local node, and MVSB is the remote node. From MVSB's point of view, MVSB is the local node and MVSA is the remote node. See also *remote node*, *target node*.

local transaction program (TP). Whether a transaction is a TP or a partner TP usually depends on the point of view. From the point of view of an MVS system, TPs residing on that system are local TPs, and TPs on remote systems are partner TPs. From the point of view of the remote system, however, the names are reversed: the TPs on its system are local TPs, and the ones on MVS are the partner TPs.

A local TP can initiate communication with one or more partner TPs. The partner might or might not reside on the local system. The TP does not need to know whether the partner TP is on the same system or on a remote system.

logging. The recording of data about specific events.

logical unit. A port providing formatting, state synchronization, and other high-level services through which an end user communicates with another end user over an SNA network.

logical unit type 6.2. The SNA logical unit type that supports general communication between programs in a cooperative processing environment; the SNA logical unit type on which CPI communications and APPC/MVS TP conversation services are built.

LPA. See *link pack area*.

LU. See *logical unit*.

LU=local. In APPC/MVS, a situation in which a pair of communicating transaction programs are on the same MVS system and under the control of APPC/MVS.

M

MAC. See *mandatory access control*.

main system. The system on a multisystem RRSF node that is designated to receive most of the RRSF communications sent to the node.

mandatory access control (MAC). A means of restricting access to objects on the basis of the sensitivity (as represented by a label) of the information contained in the objects and the formal authorization (clearance) of subjects to access information of such sensitivity.

mask. A pattern of characters that controls the keeping, deleting, or testing of portions of another pattern of characters.

mountable file system. A file system stored in an HFS data set and, therefore, able to be logically mounted in another file system.

multisystem node. See *multisystem RRSF node*

multisystem RRSF node. An RRSF node consisting of multiple MVS system images that share the same RACF database. One of the systems is designated to be the main system, and it receives most of the RRSF communications sent to the node.

MVS. Multiple virtual storage. Implies MVS/370, MVS/XA, MVS/ESA, and the MVS element of OS/390 UNIX.

N

node. See RRSF node.

network qualified name. An identifier for a partner LU in the form netid.luname, where the netid is a 1-8 character network identifier and luname is a 1-8 character LU name.

O

operator identification card (OIDCARD). A small card with a magnetic stripe encoded with unique characters and used to verify the identity of a terminal operator to RACF on an MVS system.

OS/390. An IBM licensed program that not only includes and integrates functions previously provided by many IBM software products (including the MVS operating system) but also (a) is an open, secure operating system for the IBM S/390 family of enterprise servers, (b) complies with industry standards, (c) is Year 2000 ready and enabled for network computing and e-business, and (d) supports technology advances in networking server capability, parallel processing, and object-oriented programming.

OVM segment. The portion of a RACF profile containing OVM logon information.

owner. The user or group who creates a profile, or is named the owner of a profile. The owner can modify, list, or delete the profile.

P

PADS. See *program access to data sets*.

parent. See *parent directory, parent process*.

parent directory. (1) The directory one level above the current directory. (2) When discussing a given directory, the directory that both contains a directory entry for the given directory and is represented by the pathname dot-dot in the given directory. (3) When discussing other types of files, a directory containing a directory entry for the file under discussion.

parent process. A process created to carry out a program. The parent process in turn creates child processes to execute requests. See also *child process, parent process ID, process*.

parent process ID. An attribute of a new process after it is created by a currently active process. The parent process ID of a process is the process ID of its creator, for the lifetime of the creator. After the creator's lifetime has ended, the parent process ID is the process ID of an implementation-defined system process. In OS/390 UNIX, the parent process ID of the children of an ended process is set to the process ID of the INIT process, or 1.

partner logical unit (partner LU). A partner logical unit is one that resides on a remote system. See *local logical unit*.

partner transaction program (partner TP). A partner TP is one that resides on a remote system. See *local transaction program*.

PassTicket. An alternative to the RACF password that permits workstations and client machines to communicate with the host. It allows a user to gain access to the host system without sending the RACF password across the network.

password. In computer security, a string of characters known to the computer system and a user, who must specify it to gain full or limited access to a system and to the data stored within it. In RACF, the password is used to verify the identity of the user.

pathname. In OS/390 UNIX, (1) A file name specifying all directories leading to the file. (2) A file name specifying all directories leading to a file plus the file name itself. (3) A string that is used to identify a file. A pathname consists of, at most, [PATH_MAX] bytes, including the terminating null character. It has an optional beginning slash, followed by zero or more file names separated by slashes. If the pathname refers to a directory, it may also have one or more trailing slashes. Multiple successive slashes are considered

to be the same as one slash. A pathname that begins with two successive slashes may be interpreted in an implementation-defined manner, although more than two leading slashes shall be treated as a single slash. In OS/390 UNIX, the C/370 functions **fopen()**, **freopen()**, **remove()**, and **rename()** interpret names with exactly two leading slashes, no leading blanks or other characters, and the third character not a slash to mean that the rest of the name refers to a traditional MVS data set. (4) See also *relative pathname*.

permission bits. In OS/390 UNIX, part of security controls for directories and files stored in the hierarchical file system (HFS). Used to grant read, write, search (just directory), or execute (just file) access to owner, owner's group, or all others.

persistent verification (PV). PV is an APPC term that represents a level of conversation security between two logical units (LUs). PV provides a way of reducing the number of password transmissions by eliminating the need to provide a user ID and password on each attach (allocate) during multiple conversations between a user and a partner LU. The user is verified during the signon process and remains verified until the user has been signed off the partner LU.

PID. See process ID.

process. (1) A function being performed or waiting to be performed. (2) An executing function, or one waiting to execute. (3) A function, created by a **fork()** request, with three logical sections:

- Text, which is the function's instructions.
- Data, which the instructions use but do not change.
- Stack, which is a push-down, pop-up save area of the dynamic data that the function operates upon.

The three types of processes are:

- User processes, which are associated with a user at a workstation
- Daemon processes, which do systemwide functions in user mode, such as printer spooling
- Kernel processes, which do systemwide functions in kernel mode, such as paging

A process can run in a user address space, a forked address space, or a kernel address space. In an MVS system, a process is handled like a task. See also *task*. (4) An address space and one or more threads of control that execute within that address space, and their required system resources. (5) An address space and single thread of control that executes within that address space, and its required system resources. A process is created by another process issuing the **fork()** function. The process that issues **fork()** is known as the parent process, and the new process created by the **fork()** is known as the child process. (6) A sequence of actions required to produce a desired result. (7) An entity receiving a portion of the processor's time for executing a program. (8) An activity within the system that is started by a command, a shell program, or another

process. Any running program is a process. (9) A unique, finite course of events defined by its purpose or by its effect, achieved under given conditions. (10) Any operation or combination of operations on data. (11) The current state of a program that is running—including a memory image, the program data, the variables used, the general register values, the status of opened files used, and the current directory. Programs running in a process must be either operating system programs or user programs. (12) A running program, including the memory occupied, the open files, the environment, and other attributes specific to a running program.

process ID (PID). (1) A unique number assigned to a process that is running. (2) The unique identifier representing a process. A process ID is a positive integer that can be contained in a *pid_t*. A process ID shall not be reused by the system until the process lifetime ends. In addition, if there exists a process group whose process group ID is equal to that process ID, the process ID shall not be reused by the system until the process group lifetime ends. A process that is not a system process shall not have a process ID of 1.

profile. Data that describes the significant characteristics of a user, a group of users, or one or more computer resources. See also *data set profile*, *discrete profile*, *general resource profile*, *generic profile*, *group profile*, and *user profile*.

profile list. A list of profiles indexed by class (for general resources) or by the high-level qualifier (for data set profiles) and built in storage by the RACF routines.

program access to data sets (PADS). A RACF function that enables an authorized user or group of users to access one or more data sets at a specified access authority only while running a specified RACF-controlled program. See also *program control*.

program control. A RACF function that enables an installation to control who can run RACF-controlled programs. See also *program access to data sets*.

protected resource. A resource defined to RACF for the purpose of controlling access to the resource. Some of the resources that can be protected by RACF are DASD and tape data sets, DASD volumes, tape volumes, terminals, IMS/VS transactions, IMS/VS transaction groups, and any other resources defined in the class descriptor table.

PV. See *persistent verification*.

Q

quiesce. The process of bringing a device or system to a halt by rejecting new requests for work. In RACF, the method used to ensure the integrity of the data in a shared database during a switch.

R

RACF. See Resource Access Control Facility.

RACF database. A collection of interrelated or independent data items stored together without unnecessary redundancy, to serve Resource Access Control Facility (RACF).

RACF remote sharing facility (RRSF). RACF services that function within the RACF subsystem address space to provide network capabilities to RACF.

RACF report writer. A RACF function that produces reports on system use and resource use from information found in the RACF SMF records.

RACF SMF data unload utility. A RACF utility that enables installations to create a sequential file from the security relevant audit data. The sequential file can be used in several ways: viewed directly, used as input for installation-written programs, and manipulated with sort/merge utilities. It can also be uploaded to a database manager (for example, DB2) to process complex inquiries and create installation-tailored reports.

RACF-protected. Pertaining to a resource that has either a discrete profile, an applicable generic profile, or a file or directory that doesn't have a profile, but is protected with the File Security Packet (FSP). A data set that is RACF-protected by a discrete profile must also be RACF-indicated.

RACLIST request. RACLIST requests have been replaced by RACROUTE REQUEST=LIST. See also *LIST request*.

RACROUTE macro. An assembler macro that provides a means of calling RACF to provide security functions. See also *AUDIT request*, *AUTH request*, *DEFINE request*, *DIRAUTH request*, *EXTRACT request*, *FASTAUTH request*, *LIST request*, *SIGNON request*, *STAT request*, *TOKENBLD request*, *TOKENMAP request*, *TOKENXTR request*, *VERIFY request*, and *VERIFYX request*.

RBA. See *relative byte address*.

real group ID. The attribute of a process that, at the time of process creation, identifies the group of the user who created the process. See also *group ID*.

real user ID. The attribute of a process that, at the time of process creation, identifies the user who created the process. See also *user ID*. Contrast with *effective user ID*.

relative byte address (RBA). In RACF, the address of a profile in the RACF database.

relative pathname. (1) The name of a directory or file expressed as a sequence of directories followed by a file name, beginning from the current directory. Relative pathnames do not begin with a / (slash) but are relative to

the current directory. (2) A pathname that does not begin with a slash. The predecessor of the first file name in the pathname is taken to be the current working directory of the process.

| **remote node.** Whether a node is perceived as local or remote depends on the point of view. As an example, consider two RRSF nodes that are logically connected: MVSA and MVSB. From MVSA's point of view, MVSA is the local node, and MVSB is the remote node. From MVSB's point of view, MVSB is the local node and MVSA is the remote node. See also *local node*, *target node*.

| **Resource Access Control Facility (RACF).** An IBM-licensed program that is included in OS/390 Security Server and is also available as a separate program for the MVS and VM environments. RACF provides access control by identifying and verifying users to the system, authorizing access to protected resources, logging detected unauthorized attempts to enter the system, and logging detected accesses to protected resources.

resource profile. A profile that provides RACF protection for one or more resources. User, group, and connect profiles are not resource profiles. The information in a resource profile can include the data set profile name, profile owner, universal access authority, access list, and other data. Resource profiles can be discrete profiles or generic profiles. See *discrete profile* and *generic profile*.

root. (1) The starting point of the file system. (2) The first directory in the system. (3) See *appropriate privileges*.

root directory. (1) The directory that contains all other directories in the system. (2) The lowest directory in the file system hierarchy. It is referred to as "/". (3) A directory, associated with a process, that is used in pathname resolution for pathnames that begin with a slash. (4) The top directory in the file system tree. UNIX and POSIX-conforming systems have a single root directory, with mounted devices.

RRSF. See *RACF remote sharing facility*.

RRSF logical node connection. Two RRSF nodes are logically connected when they are properly configured to communicate via APPC/MVS, and they have each been configured via the TARGET command to have an OPERATIVE connection to the other.

RRSF node. One or more MVS system images with MVS/ESA 4.3 or later installed, RACF 2.2 installed, and the RACF subsystem address space active. See also *RRSF logical node connection*.

RTOKEN. The RACF resource security token. An RTOKEN is an encapsulation or representation of the security characteristics of a resource. RACF assigns RTOKENS to some resources; for example, JES spool files. See also *UTOKEN*, *STOKEN*.

S

SAF. System authorization facility.

security. See *data security*.

security category. An installation-defined name corresponding to a department or area within an organization with similar security requirements.

security classification. The use of security categories, a security level, or both, to impose additional access controls on sensitive resources. An alternative way to provide security classifications is to use security labels.

security label. An installation-defined name that corresponds to a specific RACF security level with a set of zero or more security categories. This is equivalent to the NCSC term *sensitivity label*.

security level. An installation-defined name that corresponds to a numerical security level; the higher the number, the higher the security level.

security token. A collection of identifying and security information that represents data to be accessed, a user, or a job. This contains a user ID, group ID, security label, node of origin, and other information.

SFS. Shared file system

SFS commands. RACF commands used to manipulate RACF profiles to protect SFS files and directories.

SFS directory commands. RACF commands used to manipulate RACF profiles in the DIRECTRY general resource class to protect SFS directories: ADDDIR, ALTDIR, DELDIR, LDIRECT, PERMDIR, and SRDIR.

SFS file commands. RACF commands used to manipulate RACF profiles in the FILE general resource class to protect SFS files: ADDFILE, ALTFILE, DELFILE, LFILE, PERMFILE, and SRFILE.

shared file system (SFS). A part of CMS that lets users organize their files into groups known as directories and selectively share those files and directories with other users.

| **shell.** (1) In OS/390 UNIX, a program that interprets and processes interactive commands from a pseudoterminal or from lines in a shell script. (2) A program that interprets sequences of text input as commands. It may operate on an input stream, or it may interactively prompt and read commands from a terminal. Synonymous with *command language interpreter*. (3) A software interface between a user and the operating system of a computer. Shell programs interpret commands and user interactions on devices such as keyboards, pointing devices and touch-sensitive screens and communicate them to the operating system. (4) The command interpreter that provides a user interface to the operating system and its

commands. (5) The program that reads a user's commands and executes them. (6) The shell command language interpreter, a specific instance of a shell. (7) A layer, above the kernel, that provides a flexible interface between users and the rest of the system. (8) Software that allows a kernel program to run under different operating system environments.

SIGNON request. The issuing of the RACROUTE macro with REQUEST=SIGNON specified. A SIGNON request is used to manage the signed-on lists associated with persistent verification (PV), a feature of the APPC architecture of LU 6.2.

single-system node. See *single-system RRSF node*

single-system RRSF node. An RRSF node consisting of one MVS system image.

| **SMF.** System Management Facilities (SMF) is part of the MVS operating system that collects and records system information in the SMF log data set. Many MVS functions and subsystems, including RACF and OS/390 Security Server, cause SMF records to be written to the SMF log.

| **SMF records.** Variable length) records that are written to the SMF log data set. They are either process records or status records from the SMF data set. SMF records vary in record layout based on the kind of system information they contain. See *RACF SMF data unload utility*.

standard access list. A list within a profile of all authorized users and their access authorities. Synonymous with access list. See also *conditional access list*.

STAT request. The issuing of the RACROUTE macro with REQUEST=STAT specified. A STAT request determines if RACF is active and optionally, whether a given resource class is defined to RACF and active. The STAT request replaces the RACSTAT function.

STOKEN. A UTOKEN associated with a user who has submitted work. See also *UTOKEN, RTOKEN*.

structure. See *cache structure*.

| **superuser.** In OS/390 UNIX, a system user who operates without restrictions. A superuser has the special rights and privileges needed to perform administrative tasks.

| **superuser authority.** In OS/390 UNIX, the unrestricted ability to access and modify the resources and processes, usually associated with the user who manages the system.

supervisor. The part of a control program that coordinates the use of resources and maintains the flow of processing unit operations. Synonym for *supervisory routine*.

supervisory routine. A routine, usually part of an operating system, that controls the execution of other routines and regulates the flow of work in a data processing system. Synonymous with *supervisor*.

| **syscall**. In OS/390 UNIX, deprecated term for *callable service*.

sysplex. A set of MVS systems communicating and cooperating with each other through multisystem hardware elements and software services to process customer workloads.

system authorization facility (SAF). An MVS component that provides a central point of control for security decisions. It either processes requests directly or works with RACF or another security product to process them.

| **system call**. In OS/390 UNIX, synonym for *callable service*.

T

tape volume table of contents (TVTOC). Information about a tape data set that RACF stores in the tape volume profile for the volume on which the data set resides. The TVTOC includes the data-set name, data-set sequence number, creation date, and an indicator as to whether a discrete tape data set profile exists.

target node. An RRSF node that a given RRSF node is logically connected to, as a result of a TARGET command. The local node is a target node of itself, and all of its remote nodes are target nodes. See also *local node*, *remote node*.

task. (1) A basic unit of work to be accomplished by a computer. The task is usually specified to a control program in a multiprogramming or multiprocessing environment. (2) A basic unit of work to be performed. Some examples include a user task, a server task, and a processor task. (3) A process and the procedures that run the process. (4) In a multiprogramming or multiprocessing environment, one or more sequences of instructions treated by a control program as an element of work to be accomplished by a computer. (5) The basic unit of work for the MVS system.

TOKENBLD request. The issuing of the RACROUTE macro with REQUEST=TKENBLD specified. A TOKENBLD request builds a UTKEN.

TOKENMAP request. The issuing of the RACROUTE macro with REQUEST=TKENMAP specified. A TOKENMAP request maps a token in either internal or external format, allowing a caller to access individual fields within the UTKEN.

TOKENXTR request. The issuing of the RACROUTE macro with REQUEST=TKENXTR specified. A TOKENXTR request extracts a UTKEN from the current address space, task or a caller-specified ACEE.

TP. See *transaction program*.

transaction program (TP). A program used for cooperative transaction processing within an SNA network. For APPC/MVS, any program on MVS that issues APPC/MVS or

CPI Communication calls, or is scheduled by the APPC/MVS transaction scheduler.

TSO segment. The portion of a RACF profile containing TSO logon information.

TVTOC. See *tape volume table of contents*.

U

UACC. See *universal access authority*.

UADS. See *user attribute data set*.

UID. See *user identifier*.

| **undub**. In OS/390 UNIX, the inverse of *dub*. Normally, a task (dubbed a thread) is undubbed when it ends. An address space (dubbed a process) is undubbed when the last dubbed thread ends. Contrast with *dub*.

universal access authority (UACC). The default access authority that applies to a resource if the user or group is not specifically permitted access to the resource. The universal access authority can be any of the access authorities.

unmount. To logically disassociate a mountable file system from another file system. The TSO command to perform this action is UNMOUNT or UMount.

user. A person who requires the services of a computing system.

user attribute. The extraordinary privileges, restrictions, and processing environments assigned to a user. The user attributes are SPECIAL, AUDITOR, CLAUTH, OPERATIONS, GRPACC, ADSP, and REVOKE.

user attribute data set (UADS). In TSO, a partitioned data set with a member for each authorized user. Each member contains the appropriate passwords, user identifications, account numbers, LOGON procedure names, and user characteristics that define the user.

user data set. A data set defined to RACF in which either the high-level qualifier of the data set name or the qualifier supplied by an installation exit routine is a RACF user ID.

user ID. A string of characters that uniquely identifies a user to a system. A user ID is 1 to 8 alphanumeric characters. On TSO, user IDs cannot exceed 7 characters and must begin with an alphabetic, #, \$, or @ character.

user identification. See *user ID*.

user identification and verification. The acts of identifying and verifying a RACF-defined user to the system during logon or batch job processing. RACF identifies the user by the user ID and verifies the user by the password or operator identification card supplied during logon processing or the password supplied on a batch JOB statement.

user identifier (UID). (1) A unique string of characters that identifies an operator to the system. This string of characters limits the functions and information the operator can use. (2) A non-negative integer, which can be contained in an object of type *uid_t*, that is used to identify a system user. When the identity of the user is associated with a process, a user ID value is referred to as a real user ID, an effective user ID, or an (optional) saved set-user-ID. (3) The identification associated with a user or job. The two types of user IDs are:

- **RACF user ID:** A string of characters that uniquely identifies a RACF user or a batch job owner to the security program for the system. The batch job owner is specified on the USER parameter on the JOB statement or inherited from the submitter of the job. This user ID identifies a RACF user profile.
- **OMVS user ID:** A numeric value between 0 and 2147483647, called a UID (or sometimes a user number), that identifies a user to OS/390 UNIX. These numbers appear in the RACF user profile for the user.

A user ID is equivalent to an account on a UNIX-type system. (4) A symbol identifying a system user. (5) Synonymous with user identification.

user name. (1) In RACF, one to 20 alphanumeric characters that represent a RACF-defined user. (2) In OS/390 UNIX, a string that is used to identify a user.

user profile. A description of a RACF-defined user that includes the user ID, user name, default group name, password, profile owner, user attributes, and other information. A user profile can include information for subsystems such as TSO and DFP. See *TSO segment* and *DFP segment*.

UTOKEN. The RACF user security token. A UTOKEN is an encapsulation or representation of the security characteristics of a user. RACF assigns a UTOKEN to each user in the system. See also *STOKEN*, *RTOKEN*.

V

verification. See *user identification and verification*.

VERIFY request. The issuing of the RACROUTE macro with REQUEST=VERIFY specified. A VERIFY request is used to verify the authority of a user to enter work into the system. The VERIFY request replaces the RACINIT function.

VERIFYX request. The issuing of the RACROUTE macro with REQUEST=VERIFYX specified. A VERIFYX request verifies a user and builds a UTOKEN, and handles the propagation of submitter ID.

VM. A licensed program that controls “virtual machines” and runs on two main command languages, CP and CMS. Can be VM/SP, VM/HPO, VM/XA, or VM/ESA.

volume set. The collection of volumes on which a multivolume data set resides. A volume set is represented in one RACF profile.

W

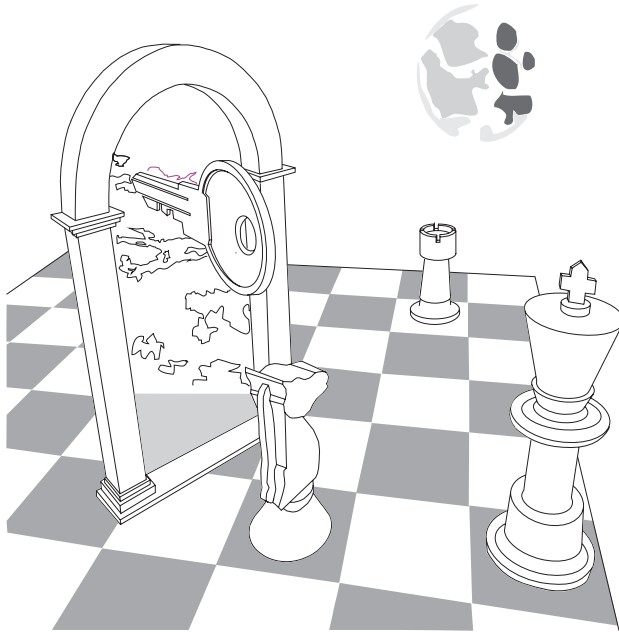
working directory. (1) In OS/390 UNIX, the active directory used to resolve pathnames that do not begin with a slash. In similar systems, a working directory may be called the *current directory* or the *current working directory*. (2) A directory, associated with a process, that is used in pathname resolution for pathnames that do not begin with a slash. (3) Synonym for *current directory*. (4) See also *current directory*.

X

XPG4. X/Open Portability Guide Issue 4

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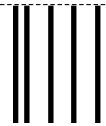
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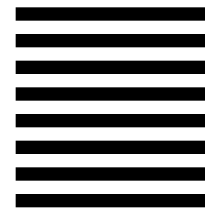
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