API/IFS Internal Trace Entries

This chapter contains internal API and IFS trace entries. It includes these sections:

- API Internal Trace Entries

  This section describes API internal trace entries.

- Flags and Return Codes

  Provides additional information about the SRE flags, TPL flags, and APICTFRE return codes

- IFS Internal Trace Entries

  Describes IFS internal trace entries.

API Internal Trace Entries

This section describes API internal trace entries, listed alphabetically by type.

API

Table 3-1 API-type API internal trace entries

Subtype	User Fields/Modules	Description
TBEG	UDW1: ASID UDW2: TCB UDW3: QSTR UDW4: TUCX	An address space has issued an AOPEN macro to the API. The ASID, TCB, and TUCX are logged. QSTR is valid only for the transport provider.
TEND	UDW1: TUCB TPCB UDW2: TCEP SVCID UDW4:EPCB	An address space has issued an ACLOSE macro to the API. The TUCB is logged. If an endpoint is OPEN, its TCEP and EPCB are logged. If a transport provider has ended, its TPCB and service ID are logged.
TOPN	UDW1: SRE UDW2: EPCB UDW3: ISRB	A TOPEN macro has been issued. The SRE and EPCB are logged. The ISRB is dispatched to process the OPEN.
TCLO	UDW1: EPCB UDW2: TUCB UDW3: ARCB UDW4: TPCB	A TCLOSE macro has been issued. The endpoint EPCB and the associated TUCB and ARCB are logged.

Table 3-1 API-type API internal trace entries (Continued)

Subtype	User Fields/Modules	Description
FSRE	UDW1: SRE UDW2: SREFLAG, TPLFLAG, RC UDW3: EPCB UDW4: TUCX	This entry is the first half of a type 00 or type 04 FSRE entry. An SRE is being completed. Its flags, the TPL flags, and the return code for APICTFRE is logged. The returned EPCB and TUCX is logged. (Read "Flags and Return Codes" on page -4 for more information.)
	UDW1: TCB UDW2: TUCB UDW3: ECB UDW4: TPL	This entry is the second half of a type 00 or type 04 FSRE entry. An SRE is being completed. A TCB may require further processing, and ECB may require posting. The user's TPL address is logged.
	UDW1: SRE UDW2: SREFLAG, TPLFLAG, RC UDW3: EPCB UDW4: TUCX	This entry is the first half of a type 8 FSRE entry. An SRE has been queued for exit processing later by an IRB. The EPCB and TUCX are logged.
	UDW1: TCB UDW2: TUCB	This entry is the second half of a type 8 FSRE entry. If an IRB needs to be scheduled, the TCB address is logged. The TUCB is also logged.
FSRE (continued)	UDW1: SRE UDW2: SREFLAG, TPLFLAG, RC UDW3: EPCB UDW4: TUCX	This entry is the first half of a type 0Cor 10 FSRE entry. An IRB exit is being driven. Its SRE and flags are logged, along with the APICTFRE return code, the EPCB and the TUCX. (Read "Flags and Return Codes" on page -4 for more information.)
	UDW1: TXPTYPE UDW2: TCEP UDW3: EXIT UDW4: TXPPARM	This entry is the second half of a type 0C or 10 FSRE entry. An IRB exit is being driven. The exit parameters are logged.
FUNC	UDW1: EPCB UDW2: SRE UDW3: TPL UDW4: FUNCTION CD	A TPL-based function has been issued. The SRE and EPCB are logged. The user's TPL address and function code are logged.
SCMP	UDW1: TUCB	Work for a user has been completed at the logged TUCB.
SSRB	UDW1: SRB UDW2: ASCB UDW3: ARCB	An SRB is being scheduled for a user address space. The ASCB and ARCB are logged. The SRB address is given.
SOPN	UDW1: TPCB UDW2: EPCB UDW3: TIB	An OPEN request is being processed. The selected service is given by the TPCB and TIB.
SCLO	UDW1: FUNCTION UDW2: ARCB/TUCB	An ACLOSE is being processed. These are the function codes: 0 – Normal ACLOSE 4 – Abortive ACLOSE at end of memory 8 – Abortive ACLOSE at end of task The ARCB or TUCB is given.
TEOJ	UDW1: ASID UDW2: TCB UDW3: ARCB/TUCB	An end of task or end of memory (end of address space) event has taken place for a task using the API.

Table 3-1 API-type API internal trace entries (Continued)

Subtype	User Fields/Modules	Description
TPEN	UDW1: SRE UDW2: EPCB UDW3: TPCB UDW4: REASON	A TPEND exit is being driven. The endpoint EPCB is given. The reason codes are from the TXP.

ENPT

Table 3-2 ENPT-type API internal trace entries

Subtype	User Fields/Modules	Description
DQSR	UDW1: A(SRC) UDW2: A(EPCB) UDW3: TPLFNCCD	An API endpoint process in the host dequeued a Service Request Element (SRE) from an Endpoint Control Block (EPCB).
NQEP	UDW1: A(EPCB) UDW2: A(TUCB)	An API endpoint process in the ACB has enqueued an Endpoint Control Block (EPCB) on the owning Transport User Control Block (TUCB).
NQSR	UDW1: A(SRE) UDW2: A(EPCB) UDW3: TPLFNCCD UDW4:TPLRTNCD	An API endpoint process has enqueued a completed Service Request Element (SRE) on the owning Endpoint Control Block (EPCB).
QXIT	UDW1: A(TUCB) UDW2: A(QSTR)	An API endpoint process has driven the Queue Structure (QSTR) completion exit to notify the API task group that a Transport User Control Block (TUCB) contains completed requests to be passed to the transport user's process.

PROV

Table 3-3 PROV-type API internal trace entries

Subtype	User Fields/Modules	Description
DQEP	UDW1: A(EPCB) UDW2: A(TPCB)	The API transport provider process has dequeued an Endpoint Control Block (EPCB) from the Transport Provider Control Block (TPCB). The EPCB contains service requests destined for an endpoint process.
DSQR	UDW1: A(SRE) UDW2: A(EPCB) UDW3: TPLFNCCD	The API transport provider process has dequeued a Service Request Element (SRE) from its Endpoint Control Block (EPCB). The EPCB is being flushed by the transport provider process due to an error or termination.
NQEP	UDW1: A(EPCB) UDW2: A(TUCB)	The API transport provider process has enqueued an Endpoint Control Block (EPCB) on its Transport User Control Block (TUCB). The EPCB has been flushed by the transport provider due to an error or termination.
NQSR	UDW1: A(SRE) UDW2: A(EPCB) UDW3: TPLFNCCD UDW4: TPLRTNCD	The API transport provider process has enqueued a Service Request Element (SRE) on its Endpoint Control Block (EPCB). The EPCB is in the process of being flushed by the transport provider due to an error or termination.
QXIT	UDW1: A(TUCB) UDW2: A(QSTR)	The API transport provider has driven the Queue Structure (QSTR) completion exit to notify the API task group that a Transport User Control Block contains completed requests to be passed to the transport user's process. The requests have been flushed by the transport provider due to error or termination.

Flags and Return Codes

This section provides additional information on the SRE flags, TPL flags, and APICTFRE return codes.

SRE Flags

Table 3-4 SRE flags

Flag	Description
x'80'	Exit request.
x'40'	Special processing.
x'20'	Static SRE, not freed.

TPL Flags

Table 3-5 IPL flags

Flag	Description
x'80'	Completed.
x'40'	Completed with error.
x'20'	External ECB.
x'10'	Completion exit routine.
x'08'	AMODE 31.
x'04'	Accepting connect.

APICTFRE Return Codes

Table 3-6 APICTFRE return codes

Flag	Description
0	Normal completion.
4	Completion exit.
8	Flushing SREs.
12	Protocol event exit.
16	Failed, no XWAs.
20	Abortive close.

IFS Internal Trace Entries

This section describes IFS internal trace entries, listed alphabetically by type.

ABND

Table 3-7 ABND-type IFS internal trace entries

Subtype	User Fields/Modules	Description
ESTA	UDW1: First half of PSW at time of ABEND UDW2: Second half of PSW at time of ABEND UDW3: System/user ABEND code UDW4-UDW5: Not used Modules: IFSVDAFY, IFSVIRPL, IFSVLGON, IFSVLTRM, IFSVNSXT, IFSVRELR, IFSVSCIP, IFSVTPND, IFSXESTA, IJTCCIB	ABEND condition intercepted by an ESTAE exit.
FRR	UDW1: Third half of PSW at time of ABEND UDW2: Second half of PSW at time of ABEND UDW3: System/user ABEND code UDW4-UDW5: Not used Modules: Application code	ABEND condition intercepted by an FRR exit.

CALL

Table 3-8 CALL-type IFS internal trace entries

Subtype	User Fields/Modules	Description
ADDR	UDW1: First four characters caller's name UDW2: Second four characters caller's name UDW3: First four characters callee's name UDW4: Second four characters callee's name UDW5: Call indicator flag Modules: IFSSCALL	Module called via entry point address.
ECM	UDW1: First four characters of module called. UDW2: Second four characters of module called. UDW3: Register 3 on entry to the PSW key mask and the primary ASID UDW4: Register 4 on entry to the A(latent parameter list) used to locate the ICVT UDW5: Register 1 parameter value on entry Modules: IJTOPCNM, IFSCSSI, IJTCCIB	Module called via external cross memory PC (space switch).
ECMR	UDW1: First four characters of module exiting UDW2: Second four characters of module exiting UDW3: Register 3 on entry to the PSW key mask and the primary ASID UDW4: Register 4 on entry to the A(latent parameter list) used to locate the ICVT UDW5: Not used Modules: IJTOPCNM, IFSCSSI, IJTCCIB	Module called via external cross memory PC is returning to the caller.
LCD	UDW1: First four characters caller's name UDW2: Second four characters caller's name UDW3: First four characters callee's name UDW4: Second four characters callee's name Modules: IFSSCALL	Module called via LOAD, CALL, and DELETE (non-memory resident module)

Table 3-8 CALL-type IFS internal trace entries (Continued)

Subtype	User Fields/Modules	Description
LCM	UDW1: First four characters caller's name UDW2: Second four characters caller's name UDW3: First four characters callee's name UDW4: Second four characters callee's name UDW5: Call indicator flag Modules: IFSSCALL	Module called via local cross memory PC (non-space switch).
LDER	UDW1: First four characters callee's name UDW2: Second four characters callee's name UDW3: Register 15 set by callee UDW4: Register 0 set by callee UDW5: Register 1 set by callee Modules: IFSSCALL	Module to be called was not found.
LDTB	UDW1: First four characters caller's name UDW2: Second four characters caller's name UDW3: First four characters callee's name UDW4: Second four characters callee's name UDW5: Call indicator flag Modules: IFSSCALL	Module called via loaded- module table entry.
RET	UDW1: First four characters callee's name UDW2: Second four characters callee's name UDW3: Register 15 set by callee UDW4: Register 0 set by callee UDW5: Register 1 set by callee Modules: IFSSCALL	Module called is returning to caller.
SRB	UDW1: First four characters callee's name UDW2: Second four characters callee's name UDW3: Register 0 parameter on entry A(SRB() UDW4: Register 1 parameter on entry UDW5: Not used Modules: IFSVDAFY, IFSVIRPL, IFSVLGON, IFSVLTRM, IFSVNSXT, IFSVRELR, IFSVSCIP, IFSVTPND	Module called via MVS SRB dispatch.
SRBR	UDW1: First four characters callee's name UDW2: Second four characters callee's name IDW3: Register 0 parameter on entry A(SRB() IDW4: Register 1 parameter on entry IDW5: Not used Modules: IFSVDAFY, IFSVIRPL, IFSVLGON, IFSVLTRM, IFSVNSXT, IFSVRELR, IFSVSCIP, IFSVTPND	Module called via MVS SRB dispatch returning.

DISP

Table 3-9 DISP-type IFS internal trace entries

Subtype	User Fields/Modules	Description
DRVR	UDW1: Address of FRR Stack UDW2: Address of first module work area (MWA) UDW3: 2 byte queue priority, 1 byte lock mask UDW4: Name or address of target routine UDW5: Characters 5-8 of routine (UDW4-addr) Modules: IFSSTDRV	ISRB Dispatching – dispatch task driver.
INIT	UDW1: Address of FRR Stack UDW2: Address of first module work area (MWA) UDW3: 2 byte queue priority, 1 byte lock mask UDW4: Name or address of target routine UDW5: Characters 5-8 of routine (UDW4-addr) Modules: IFFSSTDRV	ISRB Dispatching – initial dispatch of an ISRB.
RESD	UDW1: Address of FRR Stack UDW2: Address of first module work area (MWA) UDW3: 2 byte queue priority, 1 byte lock mask UDW4: Name or address of target routine UDW5: Characters 5-8 of routine (UDW4-addr) Modules: IFSSTDRV	ISRB Dispatching – driver task posted.
RESM	UDW1: Address of FRR Stack UDW2: Address of first module work area (MWA) UDW3: 2 byte queue priority, 1 byte lock mask UDW4: Name or address of target routine UDW5: Characters 5-8 of routine (UDW4-addr) Modules: IFSSTDRV	ISRB Dispatching – Resume dispatch of a previously suspended ISRB.
SUSP	UDW1: Address of FRR Stack UDW2: Address of first module work area (MWA) UDW3: 2 byte queue priority, 1 byte lock mask UDW4: Name or address of target routine UDW5: Characters 5-8 of routine (UDW4-addr) Modules: IFSSTDRV	ISRB Dispatching – Suspend dispatch of an ISRB.
TERM	UDW1: Address of FRR Stack UDW2: Address of first module work area (MWA) UDW3: 2 byte queue priority, 1 byte lock mask UDW4: Name or address of target routine UDW5: Characters 5-8 of routine (UDW4-addr) Modules: IFSSTDRV	ISRB Dispatching – Terminate dispatch of an ISRB.

IUCV

Table 3-10 IFS internal trace entries for IUCV

Type	User Fields	Description	Module
CLBK	UDW1: Pathid	IUCV callback issued.	T01EUxx
	UDW2: Function (text)		T01AMIUC
	UDW3: A(SEPM)		T011SRV
	UDW4: A(SAW)		T011SCA
			T011SGS
			T011STS
CONT	UDW1: Pathid	Function resumed.	T011SPC
	UDW2: Function (text)		
	UDW3: A(SEPM)		
	UDW4: A(SAW)		
DEQU	UDW1: A(IASB)	IUMS dequeued from IASB or PTPC.	T02SSCHD
	UDW2: A(PTPC)		T02CINTL
	UDW3: A(IUMS)		
DIRC	UDW1: A(IUMS)	Calling direct call external interrupt routine (Part 1).	T02SSCHD
	UDW2: PC number		
	UDW3: IPARML+0		
	UDW4: IPARML+4		
DIR2	R15: IPARML+8	Calling direct call external interrupt routine (Part 2).	T02SSCHD
	R00: IPARML+C		
	R01: IPARML+10		
	UDW1: IPARML+14		
	UDW2: IPARML+18		
	UDW3: IPARML+1C		
	UDW4: IPARML+20		
DIRX	UDW1: A(IUMS)	Return for call to direct call external interrupt routine.	T02SSCHD
	UDW2: PC number		
FAIL	UDW1: Pathid	IUCV function call failed.	T011Sxx
	UDW2: Function (text)		T01AMIUC
	UDW3: Return code		
	UDW4: IPRCODE		
FARG	R15: TRGCLS, socket number	IUCV socket function call data (contents of argument data depends on function). The TRGCLS information contained in R15 is described in the TRGCLS table, following.	T011Sxx
	R00: Argument data+0		
	R01: Argument data+4		
	UDW1: Argument data+8		
	UDW2: Argument data+C		
	UDW3: Argument data+10		
	UDW4: Argument data+14		

Table 3-10 IFS internal trace entries for IUCV (Continued)

Type	User Fields	Description	Module
FREP	R15: TRGCLS, socket number R00: Argument data+0 R01: Argument data+4 UDW1: Argument data+8 UDW2: Argument data+C UDW3: Argument data+10 UDW4: Argument data+14	IUCV socket function reply data (contents of argument data depends on function).	T011Sxx
FRET	UDW1: A(IPARML) UDW2: Return_value UDW3: IPARML+0 UDW4: IPARML+4	IUCV function complete (part 1).	T02CIUCV
FRE2	R15: IPARML+8 R00: IPARML+C R01: IPARML+10 UDW1: IPARML+14 UDW2: IPARML+18 UDW3: IPARML+1C UDW4: IPARML+20	IUCV function complete (part 2).	T02CIUCV
FUNC	UDW1: A(IPARML) UDW2: Function (text) UDW3: IPARML+0 UDW4: IPARML+4	IUCV function being processed (part 1).	T02CIUCV
FUN2	R15: IPARML+8 R00: IPARML+C R01: IPARML+10 UDW1: IPARML+14 UDW2: IPARML+18 UDW3: IPARML+1C UDW4: IPARML+20	IUCV function being processed (part 2).	T02CIUCV
IENT	UDW1: Pathid UDW2: Function (text) UDW3: A(SEPM)	Socket function being processed by OMVS	T011SPC
IEXT	UDW1: Pathid UDW2: Function (text) UDW3: Return_value UDW4: Return_code	Socket function has completed processing.	T011SPC
INTL	UDW1: A(IRBI) UDW2: A(ASCB) UDW3: A(TCB)	IUCV internal function call.	T02CINTL

Table 3-10 IFS internal trace entries for IUCV (Continued)

Type	User Fields	Description	Module
INTX	UDW1: A(IRBI) UDW2: Return_value UDW3: IPARML+0 UDW4: IPARML+4	IUCV internal function call return (part 1).	T02CINTL
INT2	R15: IPARML+8 R00: IPARML+C R01: IPARML+10 UDW1: IPARML+14 UDW2: IPARML+18 UDW3: IPARML+1C UDW4: IPARML+20	IUCV internal function call return (part 2).	T02CINTL
PCAB	UDW1: PSW word 1 UDW2: PSW word 2 UDW3: PSW word 3 UDW4: PSW word 4	Abend occurred during IUCV processing.	T02GIUCV
QUED	UDW1: A(IASB) UDW2: A(PTPC) UDW3: A(IUMS) UDW4: A(EORA)	IUMS queued to IASB or PTPC.	T02SSCHD
SIRB	UDW1: A(IASB) UDW2: A(SRBI) or 0 UDW3: A(IRBI)	External interrupt scheduled.	T02SSCHD
WAIT	UDW1: Pathid UDW2: Function (text) UDW3: A(SEPM) UDW4: A(SAW)	Socket function is awaiting callback.	T011Sxx

Note The maximum internal trace table size is now 1024 pages.

TRGCLS Table

Table 3-11 TRGCLS function call values (for use in interpreting Internal Traces)

Value	Description
0	INITAPI message
1	Socket Function: accept()
2	Socket Function: bind()
3	Socket Function: close()
4	Socket Function: connect()
5	Socket Function: fcntl()
7	Socket Function: gethostid()
8	Socket Function: gethostname()
9	Socket Function: getpeername()
10	Socket Function: getsockname()
11	Socket Function: getsockopt()
12	Socket Function: ioctl()
13	Socket Function: listen()
14	Socket Function: read(), readv()
16	Socket Function: recv(), recvfrom()
19	Socket Function: select()
20	Socket Function: send()
22	Socket Function: sendto()
23	Socket Function: setsockopt()
24	Socket Function: shutdown()
25	Socket Function: socket()
26	Socket Function: write()
29	LastErrNo Function
30	Socket Function: getclientid()
31	Socket Function: givesocket()
32	Socket Function: takesocket()
35	Socket Function: getibmsockopt()
36	Socket Function: setibmsockopt()
42	Cancel Function

LOCK

Table 3-12 LOCK-type IFS internal trace entries

Subtype	User Fields/Modules	Description
CCB	UDW1: One byte each Action, Mode, Lock Type Action Obtain(0), Release(4), Test(8) Mode Conditional(0), Unconditional(4) Type Local(0), CML(4), Control Block(8) 4th byte Reserved. UDW2-5: Not used. Modules: IFSSLOCK	Lock Service – Conditionally obtain a control block lock.
CCML	UDW1: One byte each Action, Mode, Lock Type Action Obtain(0), Release(4), Test(8) Mode Conditional(0), Unconditional(4) Type Local(0), CML(4), Control Block(8) 4th byte Reserved. UDW2-5: Not used. Modules: IFSSLOCK	Lock Service – Conditionally obtain the cross memory local lock.
CLOC	UDW1: One byte each Action, Mode, Lock Type Action Obtain(0), Release(4), Test(8) Mode Conditional(0), Unconditional(4) Type Local(0), CML(4), Control Block(8) 4th byte Reserved UDW2-5: Not used Modules: IFSSLOCK	Lock Service – Conditionally obtain the local lock.
OCB	UDW1: One byte each Action, Mode, Lock Type Action Obtain(0), Release(4), Test(8) Mode Conditional(0), Unconditional(4) Type Local(0), CML(4), Control Block(8) 4th byte Reserved UDW2-5: Not used Modules: IFSSLOCK	Lock Service – Unconditionally obtain a control block lock.
OCML	UDW1: One byte each Action, Mode, Lock Type Action Obtain(0), Release(4), Test(8) Mode Conditional(0), Unconditional(4) Type Local(0), CML(4), Control Block(8) 4th byte Reserved UDW2-5: Not used Modules: IFSSLOCK	Lock Service – Unconditionally obtain the cross memory local lock.
OLOC	UDW1: One byte each Action, Mode, Lock Type Action Obtain(0), Release(4), Test(8) Mode Conditional(0), Unconditional(4) Type Local(0), CML(4), Control Block(8) 4th byte Reserved UDW2-5: Not used Modules: IFSSLOCK	Lock Service – Unconditionally obtain the local lock.
RCB	UDW1: One byte each Action, Mode, Lock Type Action Obtain(0), Release(4), Test(8) Mode Conditional(0), Unconditional(4) Type Local(0), CML(4), Control Block(8) 4th byte Reserved UDW2-5: Not used Modules: IFSSLOCK	Lock Service – Release a control block lock.

Table 3-12 LOCK-type IFS internal trace entries (Continued)

Subtype	User Fields/Modules	Description
RCML	UDW1: One byte each Action, Mode, Lock Type Action Obtain(0), Release(4), Test(8) Mode Conditional(0), Unconditional(4) Type Local(0), CML(4), Control Block(8) 4th byte Reserved UDW2-5: Not used Modules: IFSSLOCK	Lock Service – Release the cross memory local lock.
RLOC	UDW1: One byte each Action, Mode, Lock Type Action Obtain(0), Release(4), Test(8) Mode Conditional(0), Unconditional(4) Type Local(0), CML(4), Control Block(8) 4th byte Reserved UDW2-5: Not used Modules: IFSSLOCK	Lock Service – Release the local lock.
TCB	UDW1: One byte each Action, Mode, Lock Type Action Obtain(0), Release(4), Test(8) Mode Conditional(0), Unconditional(4) Type Local(0), CML(4), Control Block(8) 4th byte Reserved UDW2-5: Not used Modules: IFSSLOCK	Lock Service – Test status of a control block lock.
TCML	UDW1: One byte each Action, Mode, Lock Type Action Obtain(0), Release(4), Test(8) Mode Conditional(0), Unconditional(4) Type Local(0), CML(4), Control Block(8) 4th byte Reserved UDW2-5: Not used Modules: IFSSLOCK	Lock Service – Test status of cross memory local lock.
TLOC	UDW1: One byte each Action, Mode, Lock Type Action Obtain(0), Release(4), Test(8) Mode Conditional(0), Unconditional(4) Type Local(0), CML(4), Control Block(8) 4th byte Reserved UDW2-5: Not used Modules: IFSSLOCK	Lock Service – Test status of local lock.

MSG

Table 3-13 MSG-type IFS internal trace entries

Subtype	User Fields/Modules	Description
	UDW1: Length of WTO and MCS flags UDW2: Characters 1-4 of message number issued UDW3: Characters 5-6 of message number issued UDW4: 2 half words of Descriptor and Route Code UDW5: WTO Multi-line information Modules: IFSSMSG	Operator message being issued.

PAGE

Table 3-14 PAGE-type IFS internal trace entries

Subtype	User Fields/Modules	Description
FIXF	UDW1: Ending A(Object) being fixed. UDW2: Beginning A(Object) being fixed. UDW3-UDW4: 8 character name of object type being fixed Module name, MWA, BUFFER, MODULE (calling module), AREA of control block ID. UDW5: Character string C'FIXF' Modules: IFSSPAGE	Page Service – Fix a page(s) fast.
FIXL	UDW1: Ending A(Object) being fixed. UDW2: Beginning A(Object) being fixed. UDW3-UDW4: 8 character name of object type being fixed Module name, MWA, BUFFER, MODULE (calling module), AREA of control block ID. UDW5: Character string C'FIXL' Modules: IFSSPAGE	Page Service – Fix a page(s) fast.
FIXS	UDW1: Ending A(Object) being fixed. UDW2: Beginning A(Object) being fixed. UDW3-UDW4: 8 character name of object type being fixed Module name, MWA, BUFFER, MODULE (calling module), AREA of control block ID. UDW5: Character string C'FIXS' Modules: IFSSPAGE	Page Service – Fix a page(s) short.
FREA	UDW1: Ending A(Object) being freed. UDW2: Beginning A(Object) being freed. UDW3-UDW4: 8 character name of object type being freed Module name, MWA, BUFFER, MODULE (calling module), AREA of control block ID. UDW5: Character string C'FREA' Modules: IFSSPAGE	Page Service – Free a page(s) fast.
FREE	UDW1: Ending A(Object) being freed. UDW2: Beginning A(Object) being freed. UDW3-UDW4: 8 character name of object type being freed Module name, MWA, BUFFER, MODULE (calling module), AREA of control block ID. UDW5: Character string C'FREE' Modules: IFSSPAGE	

Table 3-14 PAGE-type IFS internal trace entries (Continued)

Subtype	User Fields/Modules	Description
LOAD	UDW1: Ending A(Object) being loaded. UDW2: Beginning A(Object) being loaded. UDW3-UDW4: 8 character name of object type being loaded Module name, MWA, BUFFER, MODULE (calling module), AREA of control block ID. UDW5: Character string C'LOAD' Modules: IFSSPAGE	Page Service – Force a page(s) load.
OUT	UDW1: Ending A(Object) being paged out. UDW2: Beginning A(Object) being paged out. UDW3-UDW4: 8 character name of object type being paged out Module name, MWA, BUFFER, MODULE (calling module), AREA of control block ID. UDW5: Character string C'OUT ' Modules: IFSSPAGE	Page Service – Force a page(s) out.
RLSE	UDW1: Ending A(Object) being released. UDW2: Beginning A(Object) being released. UDW3-UDW4: 8 character name of object type being released Module name, MWA, BUFFER, MODULE (calling module), AREA of control block ID. UDW5: Character string C'RLSE' Modules: IFSSPAGE	Page Service – Release a page(s).

PMGR

Table 3-15 PMGR-type IFS internal trace entries

Subtype	User Fields/Modules	Description
FPOL	UDW1: Pool header name UDW2: Number of free elements in the pool UDW3: A(first element being freed) UDW4-UDW5: Unused Modules: IFSPFPOL	Pool Management – Free a chain of pool elements.
GPOL	UDW1: Pool header name UDW2: Number of free elements in the pool UDW3: A(first element being freed) UDW4-UDW5: Unused Modules: IFSPGPOL	Pool Management – Get a chain of pool elements.

POST

Table 3-16 POST-type IFS internal trace entries

Subtype	User Fields/Modules	Description
	UDW1-UDW5: Not used Modules: IFSSTDRV	Task driver posted.

SCHD

Table 3-17 SCHD-type IFS internal trace entries

Subtype	User Fields/Modules	Description
COMP	UDW1: Target task group ID, 3 characters UDW2: Name or address of target routing UDW3: Characters 5-8 of routing (UDW4-addr) UDW4: A(ISRB) being scheduled UDW5: Not used Modules: IFSSSCHD	ISRB Scheduling – prepare an extended ECB.
IMME	UDW1: Target task group ID, 3 characters UDW2: Name or address of target routing UDW3: Characters 5-8 of routing (UDW4-addr) UDW4: A(ISRB) being scheduled UDW5: Not used Modules: IFSSSCHD	ISRB Scheduling – Immediately queue the ISRB to the target ITGB.
PREP	UDW1: Target task group ID, 3 characters UDW2: Name or address of target routing UDW3: Characters 5-8 of routing (UDW4-addr) UDW4: A(ISRB) being scheduled UDW5: Not used Modules: IFSSSCHD	ISRB Scheduling – Prepare the ISRB ECB to be posted by an external process. If already posted, treat as an IMME type event.
XECB	UDW1: Target task group ID, 3 characters UDW2: Name or address of target routing UDW3: Characters 5-8 of routing (UDW4-addr) UDW4: A(ISRB) being scheduled UDW5: Not used Modules: IFSXPOST	ISRB Scheduling – an extended ECB was posted.

SSOB

Table 3-18 SSOB-type IFS internal trace entries

Subtype	User Fields/Modules	Description
CMD	UDW1: Length of SSOB UDW2: A(SSIB) UDW3: Return code from subsystem UDW4: A(Function dependent area SSOB) UDW5: Not used Modules: IFSCSSI	Operator command received via subsystem interface.

TSO

Table 3-19 ISO-type IFS internal trace entries

Subtype	User Fields/Modules	Description
PARS	UDW1: First four characters of command text UDW2: Second four characters of command text UDW3: A(Area) returned by IKJPARS UDW4: Length of area returned by IKJPARS UDW5: Not used Modules: IFSIPOOL, IFSO$CON, IFSO$ROU, IFSOABND, IFSOSNAP, IJTICNFG, IJTOAPF, IJTOATCH, IJTOGTF, IJTOHELP, IJTOLSPC, IJTOMEM, IJTOMODU, IJTOMVS, IFTOP, IJTOPOOL, IJTOSET, IJTOSRC, IJTOSTAR, IJTOSTCK, IJTOSTOP, IJTOTASK, IJTOTRAC, IJTOVAVT, IJTOWAIT, TSOAOPER	TSO Command parser
SCAN	UDW1: First four characters of command verb UDW2: Second four characters of command verb UDW3: Halfword length of command, one byte flag one byte reserved UDW4: A(command buffer) for scan UDW5: A(ECB) used during scan Modules: IJTICNFG, IJTOTSO, IJTSCSRB	TSO Command Scanner

VTAM

Table 3-20 VTAM-type IFS internal trace entries

Subtype	User Fields/Modules	Description
BIND	UDW1: First word of BIND parameters, one byte format/type, one byte Function Management profile, one byte Transmission Services profile, one byte primary LU protocols UDW2: One byte secondary LU protocols, two byte common LU protocols, one byte reserved UDW3: First four characters of primary LU name UDW4: Second four characters of primary LU name UDW5: Not used Modules: IFSVSCIP	VTAM Services – BIND request (SCIP)
CINT	UDW1: A(CINIT RU) UDW2-UDW5: Not used Modules: IFSVLGON	VTAM Services – CINIT request (LOGON).
CLER	UDW1-UDW5: Not used Modules: IFSVSCIP	VTAM Services – CLEAR request (SCIP).
CLUP	UDW1: A(Cleanup RU) UDW2-UDW5: Not used Modules: IFSVNSXT	VTAM Services – CLEANUP request (NSEXIT).
LTRM	UDW1: A(VTAM Session control block) UDW2: Communications ID UDW3: Reason code UDW4-UDW5: Not used Modules: IFSVLTRM	VTAM Services – Outage notify (LOSTERM).
NPSE	UDW1: A(NPSE RU) UDW2-UDW5: Not used Modules: IFSVNSXT	VTAM Services – NSPE request (NSEXIT).
NTFY	UDW1: A(Notify RU) UDW2-UDW5: Not used Modules: IFSVNSXT	VTAM Services – NOTIFY request (NSEXIT).
QEC	UDW1-UDW5: Not used Modules: IFSVDAFY	VTAM Services – QEC request (DYASY).
RELQ	UDW1-UDW5: Not used Modules: IFSVDAFY	VTAM Services – RELQ request (DYASY).
RELR	UDW1: A(VTAM Session control block) UDW2: A(VTAM Application LU control block) UDW3-UDW5: Not used Modules: IFSVRELR	VTAM Services – RELREQ request (RELREQ).
RRQR	UDW1-UDW5: Not used Modules: IFSVSCIP	VTAM Services – RRQR request (SCIP).
RSHD	UDW1-UDW5: Not used Modules: IFSVDAFY	VTAM Services – RSHUTD request (DYASY).
SBI	UDW1-UDW5: Not used Modules: IFSVDAFY	VTAM Services – SBI request (DFASY).
SDT	UDW1-UDW5: Not used Modules: IFSVSCIP	VTAM Services – SDT request (SCIP).
SGNL	UDW1-UDW5: Not used Modules: IFSVDAFY	VTAM Services – SIGNAL request (DFASY).

Table 3-20 VTAM-type IFS internal trace entries (Continued)

Subtype	User Fields/Modules	Description
SHTC	UDW1-UDW5: Not used Modules: IFSVDAFY	VTAM Services – SHUTC request (DFASY).
SHTD	UDW1-UDW5: Not used Modules: IFSVDAFY	VTAM Services – SHUTD request (DFASY).
STSN	UDW1-UDW5: Not used Modules: IFSVSCIP	VTAM Services – STSN request (SCIP).
TPND	UDW1: A(VTAM application LU control block) UDW2: Reason code UDW3-UDW5: Not used Modules: IFSVTPND	VTAM Services – OUTAGE notify (TPEND).
UNBD	UDW1: A(UNBIND RU) UDW2-UDW5: Not used Modules: IFSVSCIP	VTAM Services – UNBIND request (SCIP).
VRPL	UDW1: First word of the VTAM RPL UDW2: Request header type from the RPL UDW3: Post/Respond flags from the RPL UDW4: User data field from the RPL UDW5: Error feedback code from the RPL Modules: IFSVDAFY, IFSVLGON, IFSVNSXT, IFSVSCIP	VTAM Services – RPL request (SCIP).

WAIT

Table 3-21 WAIT-type IFS internal trace entries

Subtype	User Fields/Modules	Description
	UDW1-UDW5: Not used Modules: IFSSTDRV	Task driver entering wait state.