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AA          AA      CCCCCCCC      CCCCCCCC      EEEEEEEEEEE      SSSSSSSSS      SSSSSSSSS

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LL          I11111      SSSSSSSSS
LL          I11111      SSSSSSSSS
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LLLLLLLLLLL I11111      SSSSSSSSS
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1 0001 0
2 0002 0 MODULE ACCESS (LANGUAGE (BLISS32) ,
3 0003 0 IDENT = 'V04-000'
4 0004 0 ) =
5 0005 1 BEGIN
6 0006 1
7 0007 1 *****
8 0008 1 *
9 0009 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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11 0011 1 * ALL RIGHTS RESERVED.
12 0012 1 *
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26 0026 1 *
27 0027 1 *
28 0028 1 *****
29 0029 1
30 0030 1 **
31 0031 1
32 0032 1 FACILITY: MTAACP
33 0033 1
34 0034 1 ABSTRACT:
35 0035 1 This module performs the access function for mtaacp.
36 0036 1
37 0037 1 ENVIRONMENT:
38 0038 1
39 0039 1 Starlet operating system, including privileged system services
40 0040 1 and internal exec routines.
41 0041 1
42 0042 1 --
43 0043 1
44 0044 1
45 0045 1
46 0046 1 AUTHOR: D. H. Gillespie, CREATION DATE: 13-MAY-77 16:20
47 0047 1
48 0048 1 MODIFIED BY:
49 0049 1
50 0050 1 V03-002 MMD0275 Meg Dumont, 23-Mar-1984 9:49
51 0051 1 Change order of calling the routines CHECK_ACCESS and
52 0052 1 CHECK_FILE_ACC
53 0053 1
54 0054 1 V03-001 MMD0001 Meg Dumont, 5-Nov-1982 15:53
55 0055 1 Added support for setting user handling of EOT on a file access
56 0056 1
57 0057 1 V02-005 DMW00050 David Michael Walp 10-Nov-1981
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58 0058 1 : Return 'NO SUCH FILE' error for when a 'NO MORE FILES' error
59 0059 1 : is returned and no files have been found.
60 0060 1 :
61 0061 1 : V02-004 REFORMAT Maria del C. Nasr 30-Jun-1980
62 0062 1 :
63 0063 1 : V02-003 SPR27361 Maria del C. Nasr 10-Jun-1980
64 0064 1 : Fix design problem in which the IO_PACKET was being returned
65 0065 1 : before IO was really completed. Now, a file will not be accessed
66 0066 1 : until the tape mark is successfully skipped. Also, the user
67 0067 1 : labels code was eliminated, since it was never used.
68 0068 1 :
69 0069 1 : A0002 MCN0001 Maria del C. Nasr 11-Sep-79 17:02
70 0070 1 : Added argument to CHECK_FILE_ACC call to fix bug in
71 0071 1 : "create if" function.
72 0072 1 :
73 0073 1 : **
74 0074 1 :
75 0075 1 : LIBRARY 'SYSSLIBRARY:LIB.L32';
76 0076 1 :
77 0077 1 : REQUIRE 'SRCS:MTADEF.B32';
78 0461 1 :
79 0462 1 : FORWARD ROUTINE
80 0463 1 : MTA_ACCESS : NOPRES NOVALUE, ! main control for access function
81 0464 1 : CHECK_FJND : COMMON_CALL, ! conditional directory search
82 0465 1 : HANDLER; ! conditional handler to catch error exit
83 0466 1 :
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85 0467 1 GLOBAL ROUTINE MTA_ACCESS : NOPRES NOVALUE =
86 0468 1
87 0469 1 ++
88 0470 1
89 0471 1 FUNCTIONAL DESCRIPTION:
90 0472 1 This is the main processing routine for mtaacp access function
91 0473 1
92 0474 1 CALLING SEQUENCE:
93 0475 1 MTA_ACCESS()
94 0476 1
95 0477 1 INPUT PARAMETERS:
96 0478 1 None
97 0479 1
98 0480 1 IMPLICIT INPUTS:
99 0481 1 CURRENT_UCB - address of current ucb
100 0482 1 CURRENT_WCB - address of current wcb
101 0483 1 CURRENT_VCB - address of current vcb
102 0484 1 IO_PACKET - address of current io request packet
103 0485 1
104 0486 1 OUTPUT PARAMETERS:
105 0487 1 None
106 0488 1
107 0489 1 IMPLICIT OUTPUTS:
108 0490 1 None
109 0491 1
110 0492 1 ROUTINE VALUE:
111 0493 1 None
112 0494 1
113 0495 1 SIDE EFFECTS:
114 0496 1 Access request processed
115 0497 1 USER ERRORS
116 0498 1 SSS_FILALRACC - file already accessed
117 0499 1 SSS_BADPARAM - bad input parameters
118 0500 1
119 0501 1 --
120 0502 1
121 0503 2 BEGIN
122 0504 2
123 0505 2 EXTERNAL REGISTER
124 0506 2 COMMON_REG;
125 0507 2
126 0508 2 LOCAL
127 0509 2 FUNCTION : BLOCK [1], ! function and qualifiers
128 0510 2 PACKET : REF BBLOCK, ! address of io packet
129 0511 2
130 0512 2 ! address of buffer descriptors
131 0513 2
132 0514 2 ABD : REF BBLOCKVECTOR [, ABD$C LENGTH],
133 0515 2 FIB : REF BBLOCK; ! address of file information block
134 0516 2
135 0517 2 EXTERNAL
136 0518 2 CURRENT_UCB : REF BBLOCK, ! address of current ucb
137 0519 2 CURRENT_WCB : REF BBLOCK, ! address of window control block
138 0520 2 IO_PACKET : REF BBLOCK, ! address of io request packet
139 0521 2 USER_STATUS : VECTOR; ! status to return to user
140 0522 2
141 0523 2 EXTERNAL ROUTINE

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142 0524 2
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197 0579 2
198 0580 2

! Make data base changes nec for access
ACCESS_FILE : COMMON_CALL,
ACCESS_NEW_FILE : COMMON_CALL, ! access newly created file

! Check volume protection on each file access
CHECK_ACCESS : COMMON_CALL,
CHECK_FILE_ACC : COMMON_CALL, ! check access to the file
CLOSE_FILE : L$CLOSE_FILE, ! close out file
GET_FIB : COMMON_CALL, ! get file information block
MTA_CREATE, ! Main control for create function
POSITION_BY_FID : COMMON_CALL, ! position to file by fid
READ_ATTRIBUTE : COMMON_CALL, ! read file attributes
SET_USER_EOT : COMMON_CALL, ! call to set user eot handling
SPACE_TM : COMMON_CALL NOVALUE, ! space tape mark
START_VIO : COMMON_CALL; ! start up virtual io

! Setup pointers
PACKET = .IO_PACKET; ! address of io packet

! Address of buffer descriptors
ABD = .BBLOCK[.PACKET[IRPSL_SVAPTE], AIBSL_DESCRIPTOR];
FIB = GET_FIB(.ABD); ! get file information block

! Get the function to be performed
FUNCTION = .PACKET[IRPSW_FUNC];

! If anyone has a file accessed then another file can not be access nor can
! the tape be searched

IF .CURRENT_WCB NEQ 0
AND
(.FUNCTION[IOSV_ACCESS]
OR
.FIB[FIBSW_DID_NUM] NEQ 0)
THEN
ERR_EXIT(SS$_FILALRACC);

IF .FIB[FIBSV_TRUNC]
OR
.FUNCTION[IOSV_DELETE]
THEN
ERR_EXIT(SS$_BADPARA'4);

! It is possible that a create was issued without an access in which case
! there is a partial file on this tape. if the access is to a different
! file then close out the partial file before preceding

IF .CURRENT_VCB[VCBSV_PARTFILE] ! if there is a partial file
THEN

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BEGIN
! Is this a find or a request for a different file
!
IF .FIB[FIB$W_DID_NUM] NEQ 0
OR
.(FIB[FIB$W_FID])<0, 32> NEQU .CURRENT_VCB[VCB$$_CUR_FID]
THEN
CLOSE_FILE() ! close partial file before preceding
ELSE
BEGIN
! if any attributes requested,
!
IF .PACKET[IRP$W_BCNT] GTR ABD$C_ATTRIB
THEN
READ_ATTRIBUTE(.ABD); ! then read them

IF .FUNCTION[IO$V_ACCESS]
THEN
BEGIN
IF NOT .FIB[FIB$V_WRITE]
THEN
ERR_EXIT(SS$$_BADPARAM); ! must write new file

ACCESS_NEW_FILE(.FIB, .PACKET, .ABD); ! access partial file
END;

RETURN;

END;

! If file is accessed, the only function that can be performed is read
! attributes
!
IF .CURRENT_WCB NEQ 0
THEN
BEGIN
IF .PACKET[IRP$W_BCNT] GTR ABD$C_ATTRIB
THEN
READ_ATTRIBUTE(.ABD);

RETURN;

END;

! If directory id given, find file by file name string
!
IF .FIB[FIB$W_DID_NUM] NEQ 0

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THEN
  IF NOT CHECK_FIND()
  THEN
    BEGIN
      IF NOT .FUNCTION[IOSV_CREATE]
      THEN
        ERR_EXIT(SS$_NOSUCHFILE);

      USER_STATUS[0] = SS$_CREATED;
      RETURN MTA_CREATE();           ! execute create function

    END;

  ! position volume set by fid
  POSITION_BY_FID(.(FIB[FIB$W_FID])<0, 32>, .FIB[FIB$W_FID_RVN]);

  IF .PACKET[IRPSW_BCNT] GTR ABD$C_ATTRIB
  THEN
    READ_ATTRIBUTE(.ABD);

  ! if access requested
  !
  IF .FUNCTION[IOSV_ACCESS]
  THEN
    BEGIN
      CHECK_FILE_ACC(1);           ! check access to file, (1)=mta_access
      CHECK_ACCESS(.FIB[FIB$V_WRITE]); ! check volume access

      IF .CURRENT_VCB[VCSB_TM] EQLU 0
      THEN
        SPACE_TM(1);           ! position to data

      KERNEL_CALL(SET_USER_EOT, .FIB); ! call to set user EOT handling
      KERNEL_CALL(ACCESS_FILE, .FIB[FIB$L_ACCTL], .PACKET[IRPSL_PID], 1,
        .FIB[FIB$V_WRITE], .ABD);
      KERNEL_CALL(START_VIO);     ! start virtual io
      RETURN;

    END;

  END;
```

```
.TITLE ACCESS
.IDENT \V04-000\

.EXTRN CURRENT_UCB, CURRENT_WCB
.EXTRN IO_PACKET, USER_STATUS
.EXTRN ACCESS_FILE, ACCESS_NEW_FILE
.EXTRN CHECK_ACCESS, CHECK_FILE_ACC
.EXTRN CLOSE_FILE, GET_FIB
.EXTRN MTA_CREATE, POSITION_BY_FID
.EXTRN READ_ATTRIBUTE, SET_USER_EOT
```


				.EXTRN	SPACE TM, START_VIO				
				.EXTRN	SYSS\$CMKRNL				
				.PSECT	\$CODE\$,NOWRT,2				
				.ENTRY	MTA ACCESS, Save nothing				
	53	0000G	CF	0000	DO	00002	MOV	IO PACKET, PACKET	0467
	55	2C	B3	DO	00007		MOV	24(PACKET), ABD	0545
			55	DD	0000B		PUSHL	ABD	0549
0000G	CF		01	FB	0000D		CALLS	#1, GET_FIB	0550
	52		50	DO	00012		MOV	R0, FIB	
	54	20	A3	3C	00015		MOVZWL	32(PACKET), FUNCTION	0554
		0000G	CF	D5	00019		TSTL	CURRENT_WCB	0560
			0D	13	0001D		BEQL	2\$	
05	54		06	E0	0001F		BBS	#6, FUNCTION, 1\$	0562
		0A	A2	B5	00023		TSTW	10(FIB)	0564
			04	13	00026		BEQL	2\$	
		00A4	8F	BF	00028	1\$:	CHMU	#164	0566
	04	17	A2	E8	0002C	2\$:	BLBS	23(FIB), 3\$	0568
02	54		08	E1	00030		BBC	#8, FUNCTION, 4\$	0570
			14	BF	00034	3\$:	CHMU	#20	0572
	30		0B	AB	00036	4\$:	BLBC	11(CURRENT_VCB), 9\$	0579
			0A	A2	0003A		TSTW	10(FIB)	0586
			07	12	0003D		BNEQ	5\$	
24	AB	04	A2	D1	0003F		CMPL	4(FIB), 36(CURRENT_VCB)	0588
			05	13	00044		BEQL	6\$	
		0000G	30	00046	5\$:	BSBW	CLOSE_FILE	0590	
			1F	11	00049		BRB	9\$	
	05	32	A3	B1	0004B	6\$:	CMPW	50(PACKET), #5	0597
			07	1B	0004F		BLEQU	7\$	
			55	DD	00051		PUSHL	ABD	0599
SE	0000G	CF	01	FB	00053		CALLS	#1, READ_ATTRIBUTE	
	54		06	E1	00058	7\$:	BBC	#6, FUNCTION, 14\$	0601
	02	01	A2	E8	0005C		BLBS	1(FIB), 8\$	0605
			14	BF	00060		CHMU	#20	0607
			2C	BB	00062	8\$:	PUSHR	#*M<R2,R3,R5>	0609
0000G	CF		03	FB	00064		CALLS	#3, ACCESS_NEW_FILE	
			04	00069			RET		0592
		0000G	CF	D5	0006A	9\$:	TSTL	CURRENT_WCB	0622
			0F	13	0006E		BEQL	11\$	
	05	32	A3	B1	00070		CMPW	50(PACKET), #5	0626
			01	1A	00074		BGTRU	10\$	
			04	00076			RET		
			55	DD	00077	10\$:	PUSHL	ABD	0628
0000G	CF		01	FB	00079		CALLS	#1, READ_ATTRIBUTE	
			04	0007E			RET		0624
		0A	A2	B5	0007F	11\$:	TSTW	10(FIB)	0637
			1D	13	00082		BEQL	13\$	
0000V	CF		00	FB	00084		CALLS	#0, CHECK_FIND	0640
	15		50	E8	00089		BLBS	R0, 13\$	
			54	95	0008C		TSTB	FUNCTION	0644
			04	19	0008E		BLSS	12\$	
		0910	8F	BF	00090		CHMU	#2320	0646
0000G	CF	0619	8F	3C	00094	12\$:	MOVZWL	#1561, USER STATUS	0648
0000G	CF		00	FB	0009B		CALLS	#0, MTA_CREATE	0649
			04	000A0			RET		
	7E	08	A2	3C	000A1	13\$:	MOVZWL	8(FIB), -(SP)	0655

			04	A2	DD	000A5		PUSHL	4(FIB)		
		0000G	CF	02	FB	000A8		CALLS	#2, POSITION_BY_FID		
			05	32	A3	B1 000AD		CMPL	50(PACKET), #5		0657
					07	1B 000B1		BLEQU	14\$		
		0000G	CF	55	DD	000B3		PUSHL	ABD		0659
			54	01	FB	000B5		CALLS	#1, READ_ATTRIBUTE		
	5C			06	E1	000BA	14\$:	BBC	#6, FUNCTION, 16\$		0664
				01	DD	000BE		PUSHL	#1		0667
		0000G	CF	01	FB	000C0		CALLS	#1, CHECK_FILE_ACC		
7E	01	A2	01	00	EF	000C5		EXTZV	#0, #1, 1(FIB), -(SP)		0668
			CF	01	FB	000CB		CALLS	#1, CHECK_ACCESS		
				2E	AB	95 000D0		TSTB	46(CURRENT_VCB)		0670
					07	12 000D3		BNEQ	15\$		
		0000G	CF	01	DD	000D5		PUSHL	#1		0672
					01	FB	000D7	CALLS	#1, SPACE_TM		
					52	DD 000DC	15\$:	PUSHL	FIB		0674
					01	DD 000DE		PUSHL	#1		
					5E	DD 000E0		PUSHL	SP		
		00000000G	9F	0000G	CF	9F 000E2		PUSHAB	SET_USER_EOT		
					04	FB 000E6		CALLS	#4, @#SYSS\$CMKRNL		
					55	DD 000ED		PUSHL	ABD		0676
7E	01	A2	01	00	EF	000EF		EXTZV	#0, #1, 1(FIB), -(SP)		
					01	DD 000F5		PUSHL	#1		
				0C	A3	DD 000F7		PUSHL	12(PACKET)		
					62	DD 000FA		PUSHL	(FIB)		
					05	DD 000FC		PUSHL	#5		
					5E	DD 000FE		PUSHL	SP		
		00000000G	9F	0000G	CF	9F 00100		PUSHAB	ACCESS_FILE		
					08	FB 00104		CALLS	#8, @#SYSS\$CMKRNL		
					7E	D4 0010B		CLRL	-(SP)		0677
					5E	DD 0010D		PUSHL	SP		
		00000000G	9F	0000G	CF	9F 0010F		PUSHAB	START_VIO		
					03	FB 00113		CALLS	#3, @#SYSS\$CMKRNL		
					04	0011A	16\$:	RET			0682

: Line Size: 283 bytes, Routine Base: \$CODE\$ + 0000

: 301 0683 1

```
303 0684 1 ROUTINE CHECK_FIND : COMMON_CALL =
304 0685 1
305 0686 1 ++
306 0687 1
307 0688 1 FUNCTIONAL DESCRIPTION:
308 0689 1
309 0690 1 This routine calls the directory search and intercepts any error
310 0691 1 exits to handle the create if non-existent function. If the search
311 0692 1 is successful, the routine returns success; if the search fails with
312 0693 1 no such file and the create subfunction bit is set, it returns failure;
313 0694 1 all other errors are resigaled.
314 0695 1
315 0696 1
316 0697 1 CALLING SEQUENCE:
317 0698 1 CHECK_FIND ()
318 0699 1
319 0700 1 INPUT PARAMETERS:
320 0701 1 None
321 0702 1
322 0703 1 IMPLICIT INPUTS:
323 0704 1 None
324 0705 1
325 0706 1 OUTPUT PARAMETERS:
326 0707 1 None
327 0708 1
328 0709 1 IMPLICIT OUTPUTS:
329 0710 1 None
330 0711 1
331 0712 1 ROUTINE VALUE:
332 0713 1 1 if find is successful
333 0714 1 0 if file is to be created
334 0715 1
335 0716 1 SIDE EFFECTS:
336 0717 1 None
337 0718 1
338 0719 1 --
339 0720 1
340 0721 2 BEGIN
341 0722 2
342 0723 2 EXTERNAL REGISTER
343 0724 2 COMMON_REG;
344 0725 2
345 0726 2 BUILTIN
346 0727 2 FP;
347 0728 2
348 0729 2 EXTERNAL ROUTINE
349 0730 2 FIND_FILE : COMMON_CALL; ! find file in directory
350 0731 2
351 0732 2 ! Establish the condition handler and call FIND. If we hear from it we
352 0733 2 ! return true. Any signals cause either unwind or resignal.
353 0734 2
354 0735 2 .FP = HANDLER;
355 0736 2 FIND_FILE();
356 0737 2 RETURN 1;
357 0738 2
358 0739 1 END; ! end of routine CHECK_FIND
```

.EXTRN FIND_FILE

			0000	00000	CHECK_FIND:			
	6D	0000V	CF	9E	00002	.WORD	Save nothing	: 0684
0000G	CF		00	FB	00007	MOVAB	HANDLER, (FP)	: 0735
	50		01	D0	0000C	CALLS	#0, FIND_FILE	: 0736
				04	0000F	MOVL	#1, R0	: 0737
						RET		: 0739

; Routine Size: 16 bytes, Routine Base: \$CODE\$ + 011B

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360 0740 1 ROUTINE HANDLER (SIGNAL, MECHANISM) =
361 0741 1
362 0742 1 +-+
363 0743 1
364 0744 1 FUNCTIONAL DESCRIPTION:
365 0745 1
366 0746 1 This routine is the condition handler for the conditional find call.
367 0747 1 It intercepts the error exit from FIND and unwinds to CHECK_FIND's
368 0748 1 caller when appropriate.
369 0749 1
370 0750 1
371 0751 1 CALLING SEQUENCE:
372 0752 1 HANDLER (ARG1, ARG2)
373 0753 1
374 0754 1 INPUT PARAMETERS:
375 0755 1 ARG1: address of signal array
376 0756 1 ARG2: address of mechanism array
377 0757 1
378 0758 1 IMPLICIT INPUTS:
379 0759 1 None
380 0760 1
381 0761 1 OUTPUT PARAMETERS:
382 0762 1 None
383 0763 1
384 0764 1 IMPLICIT OUTPUTS:
385 0765 1 None
386 0766 1
387 0767 1 ROUTINE VALUE:
388 0768 1 SS$_RESIGNAL or none if unwind
389 0769 1
390 0770 1 SIDE EFFECTS:
391 0771 1 None
392 0772 1
393 0773 1 --
394 0774 1
395 0775 2 BEGIN
396 0776 2
397 0777 2 MAP
398 0778 2 SIGNAL : REF BBLOCK, ! signal arg array
399 0779 2 MECHANISM : REF BBLOCK; ! mechanism arg array
400 0780 2
401 0781 2 EXTERNAL ROUTINE
402 0782 2 SYSSUNWIND : ADDRESSING_MODE (ABSOLUTE); ! system unwind service
403 0783 2
404 0784 2 EXTERNAL
405 0785 2 LOCAL_FIB : BBLOCK; ! copy of user's fib
406 0786 2
407 0787 2 ! If the condition is change mode to user (error exit) and the status is
408 0788 2 ! no such file, cause an unwind to return 0 to the access main line.
409 0789 2 ! Otherwise, just resignal the condition.
410 0790 2
411 0791 2
412 0792 2 IF .SIGNAL[CHFS$_SIG_NAME] EQL SS$_CMODUSER
413 0793 2 AND
414 0794 2 .SIGNAL[CHFS$_SIG_ARG1] EQL SS$_NOSUCHFILE
415 0795 2 THEN
416 0796 3 BEGIN

```

```

417 0797 3
418 0798 3
419 0799 3
420 0800 4
421 0801 4
422 0802 4
423 0803 5
424 0804 5
425 0805 5
426 0806 5
427 0807 5
428 0808 5
429 0809 4
430 0810 4
431 0811 3
432 0812 4
433 0813 4
434 0814 4
435 0815 4
436 0816 4
437 0817 4
438 0818 4
439 0819 4
440 0820 3
441 0821 3
442 0822 2
443 0823 2
444 0824 2
445 0825 2
446 0826 1

```

```

IF .LOCAL_FIB[FIB$V_WILD]
THEN
  BEGIN
    IF .LOCAL_FIB[FIB$L_WCC] NEQ 0
    THEN
      BEGIN
        SIGNAL[CHF$L_SIG_ARG1] = SS$_NOMOREFILES;
        ! clear context if at end of search
        LOCAL_FIB[FIB$L_WCC] = 0;
      END;
    END
  ELSE
  BEGIN
    ! clear context if at end of search
    LOCAL_FIB[FIB$L_WCC] = 0;
    MECHANISM[CHF$MCH_SAVRO] = 0;
    SYSSUNWIND(0, 0);
  END;
END;
RETURN SS$_RESIGNAL; ! status is irrelevant if unwinding
END; ! end of routine HANDLER

```

.EXTRN SYSSUNWIND, LOCAL_FIB

			0004	0000	HANDLER:	.WORD	Save R2	: 0740
	52	0000G	CF	9E	00002	MOVAB	LOCAL_FIB+16, R2	: 0792
00000424	50	04	AC	D0	00007	MOVL	SIGNAL, R0	
	8F	04	A0	D1	0000B	CMPL	4(R0), #1060	
			2E	12	00013	BNEQ	2\$	
00000910	8F	08	A0	D1	00015	CMPL	8(R0), #2320	: 0794
			24	12	0001D	BNEQ	2\$	
	0E	05	A2	E9	0001F	BLBC	LOCAL_FIB+21, 1\$: 0798
			62	D5	00023	TSTL	LOCAL_FIB+16	: 0801
			1C	13	00025	BEQL	2\$	
	08	A0	8F	3C	00027	MOVZWL	#2352, 8(R0)	: 0804
			62	D4	0002D	CLRL	LOCAL_FIB+16	: 0808
			12	11	0002F	BRB	2\$: 0798
			62	D4	00031	CLRL	LOCAL_FIB+16	: 0816
	50	08	AC	D0	00033	MOVL	MECHANISM, R0	: 0818
		0C	A0	D4	00037	CLRL	12(R0)	
			7E	7C	0003A	CLRQ	-(SP)	: 0819
00000000G	9F		02	FB	0003C	CALLS	#2, @SYSSUNWIND	
	50	0918	8F	3C	00043	MOVZWL	#2328, R0	: 0824
			04	00048	RET			: 0826

; Routine Size: 73 bytes, Routine Base: \$CODE\$ + 012B

: 447 0827 1 END
: 448 0828 1
: 449 0829 0 ELUDOM

PSECT SUMMARY

Name	Bytes	Attributes
SCODES	372	NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

Library Statistics

File	Symbols		Pages Mapped	Processing Time
	Total	Loaded Percent		
_\$255\$DUA28:[SYSLIB]LIB.L32;1	18619	35 0	1000	00:01.9

COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:ACCESS/OBJ=OBJ\$:ACCESS MSRC\$:ACCESS/UPDATE=(ENHS:ACCESS)

: Size: 372 code + 0 data bytes
: Run Time: 00:11.9
: Elapsed Time: 00:43.0
: Lines/CPU Min: 4179
: Lexemes/CPU-Min: 19709
: Memory Used: 142 pages
: Compilation Complete

