

FFFFFFFFFFFFFFFF	111	111	XXX	XXX
FFFFFFFFFFFFFFFF	111	111	XXX	XXX
FFFFFFFFFFFFFFFF	111	111	XXX	XXX
FFF	111111	111111	XXX	XXX
FFF	111111	111111	XXX	XXX
FFF	111111	111111	XXX	XXX
FFF	111	111	XXX	XXX
FFF	111	111	XXX	XXX
FFF	111	111	XXX	XXX
FFFFFFFF.FFF	111	111	XXX	XXX
FFFFFFFFFFFF	111	111	XXX	XXX
FFFFFFFFFFFF	111	111	XXX	XXX
FFF	111	111	XXX	XXX
FFF	111	111	XXX	XXX
FFF	111	111	XXX	XXX
FFF	111	111	XXX	XXX
FFF	111	111	XXX	XXX
FFF	111	111	XXX	XXX
FFF	111	111	XXX	XXX
FFF	111111111	111111111	XXX	XXX
FFF	111111111	111111111	XXX	XXX
FFF	111111111	111111111	XXX	XXX

-\$25
Symt

IOCI
IO-C
IO-C
IO-C
IO-F
IO-S
KICL

KILL
KILL
LB_E
LB_C
LB_F
LB_H
LB_L
LOCAL
LOCAL
LOCK

LOCK
LOCK
LOCK
LOC-
LOC-
L-CC
L-CC
L-CC
L-DA
L-DA
MAIN
MAKE
MAKE
MAKE
MAKE
MAKE

MAKE
MAKE
MAP-
MAP-

MAP
MAR
MAR
MAR
MAR

```
RRRRRRRR      EEEEEEEEEE   TTTTTTTTTT   DDDDDDDD      IIIIII      RRRRRRRR
RRRRRRRR      EEEEEEEEEE   TTTTTTTTTT   DDDDDDDD      IIIIII      RRRRRRRR
RR      RR     EE           TT           DD           DD           II           RR      RR
RR      RR     EE           TT           DD           DD           II           RR      RR
RR      RR     EE           TT           DD           DD           II           RR      RR
RR      RR     EE           TT           DD           DD           II           RR      RR
RRRRRRRR      EEEEEEEE     TT           DD           DD           II           RRRRRRRR
RRRRRRRR      EEEEEEEE     TT           DD           DD           II           RRRRRRRR
RR      RR     EE           TT           DD           DD           II           RR      RR
RR      RR     EE           TT           DD           DD           II           RR      RR
RR      RR     EE           TT           DD           DD           II           RR      RR
RR      RR     EE           TT           DD           DD           II           RR      RR
RR      RR     EE           TT           DD           DD           II           RR      RR
RR      RR     EEEEEEEEEE   TT           DDDDDDDD      IIIIII      RR      RR
RR      RR     EEEEEEEEEE   TT           DDDDDDDD      IIIIII      RR      RR
```

```
LL              IIIIII      SSSSSSSS
LL              IIIIII      SSSSSSSS
LL              II         SS
LL              II         SS
LL              II         SS
LL              II         SS
LL              II         SSSSSS
LL              II         SSSSSS
LL              II         SS
LL              II         SS
LL              II         SS
LL              II         SS
LLLLLLLLLLLL   IIIIII      SSSSSSSS
LLLLLLLLLLLL   IIIIII      SSSSSSSS
```

```

1 0001 0 MODULE RETDIR (
2 0002 0 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 *
10 0010 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY *
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27 0027 1 *
28 0028 1 *
29 0029 1 *****
30 0030 1
31 0031 1 **
32 0032 1
33 0033 1 FACILITY: F11ACP Structure Level 2
34 0034 1
35 0035 1 ABSTRACT:
36 0036 1
37 0037 1 This routine returns the resulting data from a directory
38 0038 1 operation to the user's buffer packet.
39 0039 1
40 0040 1 ENVIRONMENT:
41 0041 1
42 0042 1 STARLET operating system, including privileged system services
43 0043 1 and internal exec routines. This routine must be called
44 0044 1 in kernel mode.
45 0045 1
46 0046 1 --
47 0047 1
48 0048 1
49 0049 1 AUTHOR: Andrew C. Goldstein, CREATION DATE: 3-Jan-1977 15:07
50 0050 1
51 0051 1 MODIFIED BY:
52 0052 1
53 0053 1 V03-002 CDS0002 Christian D. Saether 30-Dec-1983
54 0054 1 Use L_NORM linkage and BIND_COMMON macro.
55 0055 1
56 0056 1 V03-001 CDS0001 Christian D. Saether 4-May-1983
57 0057 1 Use PIC_DESC instead of DESCRIPTOR.

```

```

: 58      0058 1  !
: 59      0059 1  !
: 60      0060 1  !
: 61      0061 1  !
: 62      0062 1  !
: 63      0063 1  !
: 64      0064 1  !
: 65      0065 1  !**
: 66      0066 1
: 67      0067 1
: 68      0068 1 LIBRARY 'SYSS$LIBRARY:LIB.L32';
: 69      0069 1 REQUIRE 'SRC$:FCPDEF.B32';

V02-001 ACG0208      Andrew C. Goldstein,      12-Nov-1981  23:49
Change declaration of directory context block
Fix length checks on file name buffer

V02-000 ACG0167      Andrew C. Goldstein,      16-Apr-1980  19:27
Previous revision history moved to F11B.REV
```

```

71 1060 1 GLOBAL ROUTINE RETURN_DIR (COUNT, STRING, ABD) : L_NORM NOVALUE =
72 1061 1
73 1062 1 !++
74 1063 1
75 1064 1 FUNCTIONAL DESCRIPTION:
76 1065 1
77 1066 1 This routine returns the resulting data from a directory
78 1067 1 operation to the user's buffer packet.
79 1068 1
80 1069 1 CALLING SEQUENCE:
81 1070 1 RETURN_DIR (ARG1, ARG2, ARG3)
82 1071 1
83 1072 1 INPUT PARAMETERS:
84 1073 1 ARG1: byte count of result string
85 1074 1 ARG2: address of result string
86 1075 1 ARG3: address of buffer descriptors
87 1076 1
88 1077 1 IMPLICIT INPUTS:
89 1078 1 DIR_ENTRY: address of directory record
90 1079 1 DIR_VERSION: address of version entry
91 1080 1
92 1081 1 OUTPUT PARAMETERS:
93 1082 1 NONE
94 1083 1
95 1084 1 IMPLICIT OUTPUTS:
96 1085 1 NONE
97 1086 1
98 1087 1 ROUTINE VALUE:
99 1088 1 NONE
100 1089 1
101 1090 1 SIDE EFFECTS:
102 1091 1 result data written into buffer packet
103 1092 1
104 1093 1 --
105 1094 1
106 1095 2 BEGIN
107 1096 2
108 1097 2 MAP
109 1098 2 STRING : REF VECTOR [,BYTE], ! file string arg
110 1099 2 ABD : REF BBLOCKVECTOR [,ABD$C_LENGTH];
111 1100 2 ! descriptor arg
112 1101 2
113 1102 2 LOCAL
114 1103 2 FAO_DESC : VECTOR [2], ! FAO control string descriptor
115 1104 2 STRING_DESC : VECTOR [2]; ! FAO output string descriptor
116 1105 2
117 1106 2 BIND_COMMON;
118 1107 2
119 1108 2 DIR_CONTEXT_DEF;
120 1109 2
121 1110 2
122 1111 2 ! Build the file name string in the buffer supplied.
123 1112 2
124 1113 2
125 1114 2 .COUNT = 0;
126 1115 2 STRING_DESC[0] = FILENAME_LENGTH+6;
127 1116 2 STRING_DESC[1] = .STRING;

```

```

128      1117 2 PIC_DESC ('!AC;!SW', FAO_DESC);
129      P 1118 $FAO (FAO_DESC,
130      P 1119     .COUNT,
131      P 1120     STRING_DESC,
132      P 1121     DIR_ENTRY[DIR$B NAMECOUNT],
133      P 1122     .DIR_VERSION[DIR$W_VERSION]
134      P 1123 );
135      1124
136      1125 ! If the user provided a result length buffer, give him the length
137      1126 ! of the result string.
138      1127
139      1128
140      1129 IF .ABD[ABD$C_RES], ABD$W_COUNT] GEQ 2
141      1130 THEN
142      1131 BEGIN
143      1132     (.ABD[ABD$C_RES], ABD$W_TEXT] + ABD[ABD$C_RES], ABD$W_TEXT] + 1) < 0, 16 > = ..COUNT;
144      1133 END;
145      1134
146      1135 ! If the user provided a result string buffer, return as much of the
147      1136 ! result string as will fit (zero filling the buffer).
148      1137
149      1138
150      1139 CH$COPY (..COUNT, .STRING, 0,
151      1140     .ABD[ABD$C_RES], ABD$W_COUNT],
152      1141     .ABD[ABD$C_RES], ABD$W_TEXT] + ABD[ABD$C_RES], ABD$W_TEXT] + 1);
153      1142
154      1143 1 END;

```

! end of routine RETURN_DIR

				.TITLE	RETDIR	
				.IDENT	\V04-000\	
				.PSECT	\$CODE\$,NOWRT,2	
00	57	53	21	3B	43	41 21 0000 P.AAA:
				.ASCII	\!AC;!SW\<0>	:
				.EXTRN	SY\$FAO	
				.ENTRY	RETURN_DIR, Save R2,R3,R4,R5	: 1060
	5E			0C	C2	00002
	50	00DC		CA	9E	00005
		04		BC	D4	0000A
	7E	56		8F	9A	0000D
	04	AE		08	AC	D0 00011
	08	AE		07	D0	00016
	0C	AE		DB	AF	9E 0001A
		7E		0C	B0	32 0001F
7E	08	A0		05	C1	00023
				08	AE	9F 00028
				04	AC	DD 0002B
				18	AE	9F 0002E
00000000G	00			05	FB	00031
	50	0C		AC	D0	00038
	02	1A		A0	B1	0003C
				0F	1F	00040
	51	18		A0	9E	00042
	50			61	3C	00046
				MOVAB	220(BASE), R0	: 1104
				CLRL	@COUNT	: 1114
				MOVZBL	#86, STRING_DESC	: 1115
				MOVL	STRING, STRING_DESC+4	: 1116
				MOVL	#7, FAO_DESC	: 1117
				MOVAB	P.AAA, FAO_DESC+4	
				CVTWL	@12(R0), -(SP)	: 1123
				ADDL3	#5, 8(R0), -(SP)	
				PUSHAB	STRING_DESC	
				PUSHL	COUNT	
				PUSHAB	FAO_DESC	
				CALLS	#5, -SY\$FAO	
				MOVL	ABD, R0	: 1129
				CMPW	26(R0), #2	
				BLSSU	1\$	
				MOVAB	24(R0), R1	: 1132
				MOVZWL	(R1), R0	

				9E	01 A140	9F 00049		PUSHAB	1(R1)[R0]		
				51	04 BC	B0 0004D		MOVW	@COUNT, @(SP)+		
				52	0C AC	D0 00051	1\$:	MOVL	ABD, R1		1140
				50	20 A1	9E 00055		MOVAB	32(R1), R2		1141
22	A1		00	08	BC	3C 00059		MOVZWL	(R2), R0		
					04 BC	2C 0005C		MOVCS	@COUNT, @STRING, #0, 34(R1), 1(R2)[R0]		
					01 A240	00064					
						04 00067		RET			1143

: Routine Size: 104 bytes, Routine Base: \$CODE\$ + 0008

```

: 155      1144  1
: 156      1145  1 END
: 157      1146  0 ELUDOM

```

PSECT SUMMARY

Name	Bytes	Attributes
\$CODE\$	112	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	25 0	1000	00:02.0

COMMAND QUALIFIERS

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

```

: Size:      104 code + 8 data bytes
: Run Time:   00:16.0
: Elapsed Time: 00:34.4
: Lines/CPU Min: 4310
: Lexemes/CPU-Min: 54951
: Memory Used: 196 pages
: Compilation Complete

```


Grid of terminal screens with various command outputs and system status.

RWB
LIS

ROBLOK
LIS

REGUELI
LIS

RWATTR
LIS

REMOVE
LIS

ROHEDR
LIS

RETDTR
LIS