


```

LL      IIIIII  BBBB8888  GGGGGGGG  EEEEEEEEEE  TTTTTTTTTT  IIIIII  NN      NN  PPPPPPPP
LL      IIIIII  BBBB8888  GGGGGGGG  EEEEEEEEEE  TTTTTTTTTT  IIIIII  NN      NN  PPPPPPPP
LL      II      BB      BB  GG      GG  EE      EE  TT      TT  II      II  NN      NN  PP      PP
LL      II      BB      BB  GG      GG  EE      EE  TT      TT  II      II  NN      NN  PP      PP
LL      II      BB      BB  GG      GG  EE      EE  TT      TT  II      II  NNNN    NN  PP      PP
LL      II      BB      BB  GG      GG  EE      EE  TT      TT  II      II  NNNN    NN  PP      PP
LL      II      BBBB8888  GG      GG  EEEEEEEE  TT      TT  II      II  NN      NN  PPPPPPPP
LL      II      BBBB8888  GG      GG  EEEEEEEE  TT      TT  II      II  NN      NN  PPPPPPPP
LL      II      BB      BB  GG      GG  EEEEEEEE  TT      TT  II      II  NN      NN  PP      PP
LL      II      BB      BB  GG      GG  EEEEEEEE  TT      TT  II      II  NN      NN  PP      PP
LL      II      BB      BB  GG      GG  EEEEEEEE  TT      TT  II      II  NN      NN  PP      PP
LL      II      BB      BB  GG      GG  EEEEEEEE  TT      TT  II      II  NN      NN  PP      PP
LLLLLLLL  IIIIII  BBBB8888  GGGGGG  EEEEEEEEEE  TT      TT  IIIIII  NN      NN  PP      PP
LLLLLLLL  IIIIII  BBBB8888  GGGGGG  EEEEEEEEEE  TT      TT  IIIIII  NN      NN  PP      PP

```

```

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
LLLLLLLL  IIIIII  SSSSSSSS
LLLLLLLL  IIIIII  SSSSSSSS

```

```

...
...
...
...

```



```

1 0001 0 MODULE LIB$GET_INPUT (      ! Library $GET on device SYSS$INPUT
2 0002 0
3 0003 0      IDENT = '1-015'      ! File: LIBGETINP.B32  Edit: STAN1015
4 0004 0
5 0005 0      ) =
6 0006 1 BEGIN
7 0007 1
8 0008 1 *****
9 0009 1 *
10 0010 1 *  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
11 0011 1 *  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
12 0012 1 *  ALL RIGHTS RESERVED.
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25 0025 1 *  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
26 0026 1 *  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
27 0027 1 *
28 0028 1 *
29 0029 1 *****
30 0030 1
31 0031 1
32 0032 1 **
33 0033 1 FACILITY:  General Uitlity Library
34 0034 1
35 0035 1 ABSTRACT:
36 0036 1
37 0037 1      Output a string as a record on device SYSS$INPUT.
38 0038 1
39 0039 1 ENVIRONMENT:  User Mode - AST re-entrant
40 0040 1
41 0041 1 AUTHOR:  Thomas N. Hastings, CREATION DATE:  8-Aug-1977
42 0042 1
43 0043 1 MODIFIED BY:
44 0044 1
45 0045 1      Thomas N. Hastings, 8-Aug-1977:  VERSION 0
46 0046 1 01  - original
47 0047 1 04  - change to SYSS$INPUT
48 0048 1 05  - change to do OPEN at first time
49 0049 1 06  - change to set up RAB for GET_STRING
50 0050 1 0-7  - fix comment
51 0051 1 0-10 - Change to STARLET library.  DGP 20-Apr-78
52 0052 1 0-11 - Remove EXTERNAL RMS$RTB.  TNH 24-Apr-78
53 0053 1 0-12 - Change REQUIRE files for VAX system build.  DGP 28-Apr-78
54 0054 1 0-13 - Change STARLET to RTLSTARLE to avoid conflicts.  DGP 1-May-78
55 0055 1 0-14 - Add LIB$GET_COMMAND entry point.  TNH 17-June-78
56 0056 1      For now, just copy entire routine.
57 0057 1 0-15 - Make wait if record stream active so AST re-entrant.

```

```
58 0058 1 | Also allocate dynamic string if passed. TNH 29-July-78
59 0059 1 | 0-18 - Make common routine. TNH 29-July-78
60 0060 1 | 0-19 - Use LIB$COPY_R_DX, not DD. TNH 2-Aug-78
61 0061 1 | 0-20 - Change file name to LIBGETINP.B32, and change the name of
62 0062 1 | the REQUIRE file similarly. JBS 14-NOV-78
63 0063 1 | 1-001 - Update version number and copyright notice. JBS 16-NOV-78
64 0064 1 | 1-002 - Declare NULLPARAMETER for new BLISS compiler. JBS 22-NOV-78
65 0065 1 | 1-003 - Change REQUIRE file names from FOR... to OTS... JBS 07-DEC-78
66 0066 1 | 1-003 - Put in extra RETURN to avoid INFO message about a null
67 0067 1 | expression in a value-required context. JBS 22-NOV-78
68 0068 1 | 1-004 - Change LIB$$ to STR$. JBS 23-MAY-1979
69 0069 1 | 1-005 - Change call to STR$COPY. JBS 16-JUL-1979
70 0070 1 | 1-006 - Optionally return the number of characters in the record, so
71 0071 1 | callers with fixed strings can ignore trailing blanks.
72 0072 1 | JBS 06-SEP-1979
73 0073 1 | 1-007 - Revise edit 006 to not return more than the number of bytes
74 0074 1 | requested, and return as a word. This is similar to system
75 0075 1 | services. JBS 18-SEP-1979
76 0076 1 | 1-008 - Use LIB$SCOPY_R_DX to copy string since STR$COPY_R signals
77 0077 1 | errors.
78 0078 1 | Do string copy even if $GET fails because the string may have
79 0079 1 | been returned. When waiting for record stream to become
80 0080 1 | inactive, do $GET's, not $PUT's! SBL 22-Jan-1980
81 0081 1 | 1-009 - Enhance to recognize additional classes of string descriptors
82 0082 1 | by invoking LIB$ANALYZE_SDESC_R3 to extract length and address
83 0083 1 | of 1st data byte from descriptor. RKR 27-MAY-1981.
84 0084 1 | 1-010 - Correct bugs caused by fact that LIB$ANALYZE_SDESC_R3 returns
85 0085 1 | a word length rather than a byte or longword. SBL 4-Sep-1981
86 0086 1 | 1-011 - Correct comment regarding statuses returned.
87 0087 1 | Add special-case code for string descriptors that "read" like
88 0088 1 | fixed string descriptors to avoid calls to
89 0089 1 | LIB$ANALYZE_SDESC_R3. RKR 7-OCT-1981
90 0090 1 | 1-012 - Redirect jsb's from LIB$ANALYZE_SDESC_R3 to
91 0091 1 | LIB$ANALYZE_SDESC_R2. Use LIB$SCOPY_R_DX6 to do copying.
92 0092 1 | RKR 18-NOV-1981.
93 0093 1 | 1-013 - Add support for class S0 string descriptors. DG 3-Oct-1983.
94 0094 1 | 1-014 - Change class S0 string descriptors to SB. DG 27-Feb-1984
95 0095 1 | 1-015 - If called with a dynamic string descriptor already containing
96 0096 1 | more than 256 bytes of buffer, use that buffer. STAN 8-Jul-1984.
97 0097 1 | --
98 0098 1 | <BLF/PAGE>
```

```
100 0099 1 |
101 0100 1 | SWITCHES
102 0101 1 |
103 0102 1 |
104 0103 1 | SWITCHES ADDRESSING MODE
105 0104 1 | (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);
106 0105 1 |
107 0106 1 |
108 0107 1 | LINKAGES
109 0108 1 |
110 0109 1 | REQUIRE 'RTLIN:STRLNK'; ! Linkage for LIB$ANALYZE_SDESC_R2
111 0294 1 |
112 0295 1 |
113 0296 1 | TABLE OF CONTENTS:
114 0297 1 |
115 0298 1 |
116 0299 1 | FORWARD ROUTINE
117 0300 1 | LIB$GET_INPUT, ! Get string from device SYSS$INPUT
118 0301 1 | LIB$GET_COMMAND, ! Get string from device SYSS$COMMAND
119 0302 1 | DO_GET; ! Common rout. to do main part of above.
120 0303 1 |
121 0304 1 |
122 0305 1 | INCLUDE FILES:
123 0306 1 |
124 0307 1 |
125 0308 1 | REQUIRE 'RTLIN:RTLPSECT'; ! Define DECLARE_PSECTS macro
126 0403 1 |
127 0404 1 | LIBRARY 'RTLSTARLE'; ! STARLET library for macros and symbols
128 0405 1 |
129 0406 1 |
130 0407 1 | MACROS:
131 0408 1 |
132 0409 1 |
133 0410 1 | EQUATED SYMBOLS:
134 0411 1 |
135 0412 1 |
136 0413 1 | LITERAL
137 0414 1 |
138 0415 1 | K_DYN_STR_MAX = 256; ! Max. size of dynamic string which can
139 0416 1 | ! be handled before truncation
140 0417 1 |
141 0418 1 | PSECT DECLARATIONS:
142 0419 1 |
143 0420 1 | DECLARE_PSECTS (LIB); ! declare PSECTS for LIB$ facility
144 0421 1 |
145 0422 1 | OWN STORAGE:
146 0423 1 |
147 0424 1 |
148 0425 1 | OWN
149 0426 1 | SYS_INPUT_ISI : WORD INITIAL (0), ! ISI for SYSS$INPUT
150 0427 1 | SYS_COMMAND_ISI : WORD INITIAL (0); ! ISI for SYSS$COMMAND
151 0428 1 |
152 0429 1 |
153 0430 1 | EXTERNAL REFERENCES:
154 0431 1 |
155 0432 1 |
156 0433 1 | EXTERNAL ROUTINE
```

```

: 157 0434 1 LIB$ANALYZE_SDESC_R2 : LIB$ANALYZE_SDESC_JSB_LINK, ! Extract length
: 158 0435 1 ! and address of
: 159 0436 1 ! 1st data byte
: 160 0437 1 ! from descriptor
: 161 0438 1 LIB$COPY_R_DX6 : STRING_JSB ; ! Copy to any class string
: 162 0439 1
: 163 0440 1 EXTERNAL
: 164 0441 1 LIB$FATERRLIB, ! LIB -- FATAL ERROR IN LIBRARY
: 165 0442 1 LIB$INPSTRTRU; ! LIB -- INPUT STRING TRUNCATED
: 166 0443 1
```

.....

```
168 0444 1 GLOBAL ROUTINE LIB$GET_INPUT (      ! Input string from SYSS$INPUT
169 0445 1
170 0446 1     GET STRING,      ! Adr. of string descriptor
171 0447 1     PROMPT_STRING,  ! Adr. of optional PROMPT_STRING string
172 0448 1                   ! descriptor
173 0449 1     OUTLEN      ! Optional number of bytes returned
174 0450 1
175 0451 1                   ) = ! Value returned is RMS completion code
176 0452 1
177 0453 1
178 0454 1  ++
179 0455 1  FUNCTIONAL DESCRIPTION:
180 0456 1  A line from the current controlling input device, SYSS$INPUT, is
181 0457 1  obtained. If an optional PROMPT_STRING is given, output will
182 0458 1  appear on the device, SYSS$INPUT, if the device is a terminal;
183 0459 1  otherwise the PROMPT_STRING is ignored. No CRLF is
184 0460 1  appended to the record obtained from RMS. On first call,
185 0461 1  device SYSS$INPUT is opened.
186 0462 1  Thus the user can assign the logical name SYSS$INPUT to any file
187 0463 1  name in order to redirect I/O.
188 0464 1
189 0465 1  CALLING SEQUENCE:
190 0466 1
191 0467 1  RET_STATUS.wlc.v = LIB$GET_INPUT (get_string.wt.dx
192 0468 1  [prompt_string.rt.dx
193 0469 1  [,outlen.wv.r]])
194 0470 1
195 0471 1  INPUT PARAMETERS:
196 0472 1
197 0473 1  prompt_string is the address of a string descriptor specifying
198 0474 1  an optional prompt which is output to the
199 0475 1  controlling input device. Where other conventions
200 0476 1  are not established, it is recommended for
201 0477 1  consistency to make prompts be an English word
202 0478 1  followed by a colon(:), one (1) space, and no
203 0479 1  CRLF.
204 0480 1
205 0481 1  OUTPUT PARAMETERS:
206 0482 1
207 0483 1  get_string is the address of string descriptor of any type
208 0484 1  of descriptor supported by LIB$ANALYZE_SDESC.
209 0485 1
210 0486 1  outlen is the number of characters placed in the string.
211 0487 1
212 0488 1  IMPLICIT INPUTS:
213 0489 1
214 0490 1  SYS_INPUT_ISI Set on first call to RMS internal stream
215 0491 1  identifier.
216 0492 1
217 0493 1  IMPLICIT OUTPUTS:
218 0494 1
219 0495 1  SYS_INPUT_ISI Set to RMS internal stream identifier
220 0496 1  on first call when SYSS$INPUT is OPENed.
221 0497 1
222 0498 1
223 0499 1  COMPLETION STATUS:
224 0500 1
```

```

225 0501 1  SSS_NORMAL if success.
226 0502 1
227 0503 1  LIB$_INPSTRTRU if input string is bigger than the caller's
228 0504 1  fixed length string.
229 0505 1  LIB$_INVSTRDES if the input descriptor's class is not a
230 0506 1  recognized string class.
231 0507 1  RMS$_xyz if any RMS error.
232 0508 1
233 0509 1  SIDE EFFECTS:
234 0510 1
235 0511 1  Opens file SYSS$INPUT on first call and remembers ISI for
236 0512 1  subsequent calls.
237 0513 1
238 0514 1
239 0515 2  BEGIN
240 0516 2
241 0517 2  BUILTIN
242 0518 2  NULLPARAMETER;
243 0519 2
244 0520 2  RETURN DO GET (.GET STRING, ! String to return
245 0521 2  (IF NULLPARAMETER (2) THEN 0 ELSE .PROMPT_STRING), ! Optional
246 0522 2  (IF NULLPARAMETER (3) THEN 0 ELSE .OUTLEN), ! prompt
247 0523 2  ! Optional
248 0524 2  ! number of
249 0525 2  ! bytes returned
250 0526 2  SYS_INPUT_ISI, ! internal stream id for SYSS$INPUT
251 0527 2  9, ! length of SYSS$INPUT string
252 0528 2  UPLIT ('SYSS$INPUT')); ! name to open first time
253 0529 2
254 0530 1  END; ! End of LIB$GET_INPUT routine

```

```

.TITLE LIB$GET_INPUT
.IDENT \1-015\

.PSECT _LIB$DATA,NOEXE, PIC,2
0000 00000 SYS_INPUT_ISI:
.WORD 0
0000 00002 SYS_COMMAND_ISI:
.WORD 0

.PSECT _LIB$CODE,NOWRT, SHR, PIC,2
00 00 00 54 55 50 4E 49 24 53 59 53 00000 P.AAA: .ASCII \SYSS$INPUT\<0><0><0>

.EXTRN LIB$ANALYZE_SDESC_R2
.EXTRN LIB$SCOPY_R_DX6
.EXTRN LIB$_FATERRCIB, LIB$_INPSTRTRU

.ENTRY LIB$GET_INPUT, Save nothing : 0444
PUSHAB P.AAA : 0528
PUSHL #9 : 0520
PUSHAB SYS_INPUT_ISI :
CMPB (APT, #3) : 0523
BLSSU 1$ :
TSTL 12(AP) :

```


LIB\$GET_INPUT
1-015

L 8
16-Sep-1984 01:00:46
14-Sep-1984 12:38:58

VAX-11 Bliss-32 V4.0-742
[LIBRTL.SRC]LIBGETINP.B32;1

Page 7
(3)

		04	12	00015		BNEQ	2\$		
		7E	D4	00017	1\$:	CLRL	-(SP)		
		03	11	00019		BRB	3\$		
	02	0C	AC	DD	0001B	2\$:	PUSHL	OUTLEN	
		6C	91	0001E	3\$:	CMPB	(AP), #2		0521
		05	1F	00021		BLSSU	4\$		
		08	AC	D5	00023		TSTL	8(AP)	
		04	12	00026		BNEQ	5\$		
		7E	D4	00028	4\$:	CLRL	-(SP)		
		03	11	0002A		BRB	6\$		
		08	AC	DD	0002C	5\$:	PUSHL	PROMPT_STRING	
		04	AC	DD	0002F	6\$:	PUSHL	GET_STRING	0520
	0000V	CF	06	FB	00032		CALLS	#6, DO_GET	
			04	00037		RET			0530

; Routine Size: 56 bytes, Routine Base: _LIB\$CODE + 000C

```
256 0531 1 GLOBAL ROUTINE LIB$GET_COMMAND (      ! Input string from SYSS$COMMAND
257 0532 1
258 0533 1     GET_STRING,      ! Adr. of string descriptor
259 0534 1     PROMPT_STRING, ! Adr of optional PROMPT_STRING
260 0535 1     descriptor
261 0536 1     OUTLEN      ! Number of chars returned
262 0537 1
263 0538 1     ) = ! Value returned is RMS completion
264 0539 1     ! code
265 0540 1
266 0541 1 ++
267 0542 1 FUNCTIONAL DESCRIPTION:
268 0543 1
269 0544 1     A line from the current controlling input device, SYSS$COMMAND,
270 0545 1     is obtained.  If an optional PROMPT STRING is given, output
271 0546 1     will appear on the device, SYSS$COMMAND, if the device is a
272 0547 1     terminal; otherwise the PROMPT_STRING is ignored.  No CRLF is
273 0548 1     appended to the record obtained from RMS.  On first call,
274 0549 1     device SYSS$COMMAND is opened.
275 0550 1     Thus the user can assign the logical name SYSS$COMMAND to any
276 0551 1     file name in order to redirect I/O.  Note: Generally
277 0552 1     LIB$GET_INPUT should be used rather than LIB$GET_COMMAND.
278 0553 1     LIB$GET_COMMAND should only be used when the user has indicated
279 0554 1     that the terminal is explicitly wanted when in an indirect file.
280 0555 1     For example, $INQUIRE or /CONFIRM qualifier.
281 0556 1     Normally, SYSS$INPUT and SYSS$COMMAND are the same file
282 0557 1     (interactive and batch).  It is only when an interactive user
283 0558 1     uses an indirect file that the devices are different
284 0559 1     (SYSS$INPUT = indirect file, SYSS$COMMAND remaining associated
285 0560 1     with the terminal).
286 0561 1
287 0562 1 CALLING SEQUENCE:
288 0563 1
289 0564 1     RET_STATUS.wlc.v = LIB$GET_COMMAND (get_string.wt.dx
290 0565 1     [,prompt_string.rt.dx
291 0566 1     [,outlen.ww.r]])
292 0567 1
293 0568 1 INPUT PARAMETERS:
294 0569 1
295 0570 1     prompt_string is the address of a string descriptor specifying
296 0571 1     an optional prompt which is output to the
297 0572 1     controlling input device.  Where other conventions
298 0573 1     are not established, it is recommended for
299 0574 1     consistency to make prompts be an English word
300 0575 1     followed by a colon(:), one (1) space, and no
301 0576 1     CRLF.
302 0577 1
303 0578 1 OUTPUT PARAMETERS:
304 0579 1
305 0580 1     get_string is the address of string descriptor of any type
306 0581 1     (unspecified, static, dynamic, or varying as
307 0582 1     specified by the DSC$B (CLASS field) which is to
308 0583 1     receive the string. (See Chapter 2 -- Section on
309 0584 1     passing strings as output parameters for the
310 0585 1     semantics of each string type.)
311 0586 1     outlen is the number of characters returned to the
312 0587 1     caller.
```

```

313 0588 1
314 0589 1 IMPLICIT INPUTS:
315 0590 1
316 0591 1     SYS_COMMAND_ISI  Set on first call to RMS internal stream
317 0592 1         identifier.
318 0593 1
319 0594 1 IMPLICIT OUTPUTS:
320 0595 1
321 0596 1     SYS_COMMAND_ISI  Set to RMS internal stream identifier
322 0597 1         on first call when SYS$COMMAND is OPENed.
323 0598 1
324 0599 1
325 0600 1 COMPLETION STATUS:
326 0601 1
327 0602 1     SSS_NORMAL if success.
328 0603 1
329 0604 1     LIB$_INPSTRTRU if input string is bigger than the caller's
330 0605 1         fixed length string.
331 0606 1     LIB$_INVARG if the input descriptor's class is not a recognized
332 0607 1         string type.
333 0608 1     RMSS_xyz if any RMS error.
334 0609 1
335 0610 1 SIDE EFFECTS:
336 0611 1
337 0612 1     Opens file SYS$COMMAND on first call and remembers ISI for
338 0613 1         subsequent calls.
339 0614 1 --
340 0615 1
341 0616 2 BEGIN
342 0617 2
343 0618 2 BUILTIN
344 0619 2     NULLPARAMETER;
345 0620 2
346 0621 2 RETURN DO GET (.GET STRING,      ! String to return
347 0622 2     (IF NULLPARAMETER (2) THEN 0 ELSE .PROMPT_STRING), ! Optional
348 0623 2     ! prompt
349 0624 2     ! string
350 0625 2     (IF NULLPARAMETER (3) THEN 0 ELSE .OUTLEN), ! Optional
351 0626 2     ! number of
352 0627 2     ! chars returned
353 0628 2     SYS_COMMAND_ISI, ! internal stream id for SYS$COMMAND
354 0629 2     11, ! length of SYS$COMMAND string
355 0630 2     UPLIT ('SYS$COMMAND')); ! name to open first time
356 0631 2
357 0632 1 END; ! End of LIB$GET_COMMAND routine

```

00 44 4E 41 4D 4D 4F 43 24 53 59 53 00044 P.AAB: .ASCII \SYS\$COMMAND\<0>

		0000 0000	.ENTRY	LIB\$GET_COMMAND, Save nothing	: 0531
	EF	AF 9F 00002	PUSHAB	P.AAB	: 0630
		0B DD 00005	PUSHL	#11	: 0621
	03 00000000'	EF 9F 00007	PUSHAB	SYS_COMMAND_ISI	: 0625
		6C 91 0000D	CMPB	(APT, #3	

LIB\$GET_INPUT
1-015

B 9
16-Sep-1984 01:00:46
14-Sep-1984 12:38:58

VAX-11 91iss-32 V4.0-742
[LIBRTL.SRC]LIBGETINP.B32;1

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(4)

LIB
1-0

		05	1F	00010		BLSSU	1\$		
		0C	AC	D5	00012	TSTL	12(AP)		
			04	12	00015	BNEQ	2\$		
			7E	D4	00017	CLRL	-(SP)		
			03	11	00019	BRB	3\$		
		0C	AC	DD	0001B	PUSHL	OUTLEN		
	02		6C	91	0001E	CMPB	(AP), #2		0622
			05	1F	00021	BLSSU	4\$		
		08	AC	D5	00023	TSTL	8(AP)		
			04	12	00026	BNEQ	5\$		
			7E	D4	00028	CLRL	-(SP)		
			03	11	0002A	BRB	6\$		
		08	AC	DD	0002C	PUSHL	PROMPT_STRING		
		04	AC	DD	0002F	PUSHL	GET_STRING		0621
	0000V	CF	06	FB	00032	CALLS	#6, DO_GET		
			04	00037		RET			0632

; Routine Size: 56 bytes, Routine Base: _LIB\$CODE + 0050

```
359 0633 1 ROUTINE DO_GET ( ! Input string from SYSS$INPUT or SYSS$COMMAND
360 0634 1
361 0635 1 GET_STRING, ! Adr. of string descriptor
362 0636 1 PROMPT_STRING, ! Adr. of optional PROMPT_STRING string
363 0637 1 descriptor
364 0638 1 OUTLEN, ! Number of chars returned to the caller
365 0639 1 GET_ISI, ! Adr. of ISI word for this file
366 0640 1 DEVICE_NAME_LEN, ! Length of device name string
367 0641 1 DEVICE_NAME ! Adr. of device name string
368 0642 1
369 0643 1 ) = ! Value returned is RMS completion code
370 0644 1
371 0645 1 +-
372 0646 1 FUNCTIONAL DESCRIPTION:
373 0647 1
374 0648 1 A line from the current controlling input device, DEVICE_NAME,
375 0649 1 is obtained. If an optional PROMPT_STRING is given, output
376 0650 1 will appear on the device, DEVICE_NAME, if the device is a
377 0651 1 terminal; otherwise the PROMPT_STRING is ignored. No CRLF is
378 0652 1 appended to the record obtained from RMS. On first call, device
379 0653 1 DEVICE_NAME is opened.
380 0654 1 Thus the user can assign the logical name DEVICE_NAME to any
381 0655 1 file name in order to redirect I/O.
382 0656 1
383 0657 1 CALLING SEQUENCE:
384 0658 1
385 0659 1 ret_status.wlc.v = DO_GET (get_string.wt.dx,
386 0660 1 [prompt_string.rt.dx],
387 0661 1 [outlen.wv.r],
388 0662 1 get_isi.mw.r,
389 0663 1 device_name_len.rl.v,
390 0664 1 device_name.rt.r)
391 0665 1
392 0666 1 INPUT PARAMETERS:
393 0667 1
394 0668 1 prompt_string is the address of a string descriptor specifying
395 0669 1 an optional prompt which is output to the
396 0670 1 controlling input device. Where other conventions
397 0671 1 are not established, it is recommended for
398 0672 1 consistency to make prompts be an English word
399 0673 1 followed by a colon(:), one (1) space, and no
400 0674 1 CRLF.
401 0675 1
402 0676 1
403 0677 1 get_isi Set on first call to RMS internal stream
404 0678 1 identifier.
405 0679 1
406 0680 1 device_name_len is the length of the device_name string in
407 0681 1 bytes.
408 0682 1
409 0683 1 device_name is the adr. of the device name to be opened
410 0684 1 the first time.
411 0685 1
412 0686 1 OUTPUT PARAMETERS:
413 0687 1
414 0688 1 get_string is the address of the string descriptor
415 0689 1 which is to receive the string.
```

```

416 0690 1      outlen      Is the number of characters returned to the caller
417 0691 1
418 0692 1  IMPLICIT INPUTS:
419 0693 1
420 0694 1      NONE
421 0695 1
422 0696 1  IMPLICIT OUTPUTS:
423 0697 1
424 0698 1      NONE
425 0699 1
426 0700 1  COMPLETION STATUS:
427 0701 1
428 0702 1      $$$_NORMAL if success.
429 0703 1
430 0704 1      LIB$_INPSTRTRU if input string is bigger than the caller's
431 0705 1          fixed length string.
432 0706 1      LIB$_INVSTRDES if the input descriptor's class is not a
433 0707 1          recognized string class.
434 0708 1      RM$$_xyz if any RMS error.
435 0709 1
436 0710 1  SIDE EFFECTS:
437 0711 1
438 0712 1      Opens file DEVICE_NAME on first call and remembers ISI for
439 0713 1          subsequent calls by storing ISI in get_isi.
440 0714 1  --
441 0715 1
442 0716 2  BEGIN
443 0717 2
444 0718 2  BUILTIN
445 0719 2  NULLPARAMETER;
446 0720 2
447 0721 2  LOCAL
448 0722 2  GET_STRING_LEN: WORD,          ! length of buffer
449 0723 2  GET_STRING_ADDR,                ! addr of buffer
450 0724 2  PROMPT_STRING_LEN: WORD,      ! length of prompt
451 0725 2  string
452 0726 2  PROMPT_STRING_ADDR,          ! addr of prompt string
453 0727 2  GET_STATUS,                  ! status from $GET
454 0728 2  RET_STATUS,                  ! status from other
455 0729 2  calls
456 0730 2  FAB : $FAB_DECL,              ! FAB
457 0731 2  RAB : $RAB_DECL,              ! RAB
458 0732 2  DYNAMIC_STR_BUF : VECTOR [K_DYN_STR_MAX, BYTE, UNSIGNED]; !
459 0733 2  ! temporary buffer for
460 0734 2  ! dynamic string case.
461 0735 2
462 0736 2  MAP
463 0737 2  GET_STRING : REF BLOCK [8, BYTE], ! String descriptor
464 0738 2  PROMPT_STRING : REF BLOCK [8, BYTE], ! String descriptor
465 0739 2  OUTLEN : REF VECTOR [1, WORD, UNSIGNED], ! Number of characters
466 0740 2  returned to the user
467 0741 2  GET_ISI : REF VECTOR [1, WORD, UNSIGNED]; ! Place to remember
468 0742 2  ! ISI in static
469 0743 2  ! storage
470 0744 2
471 0745 2  IF (.GET_ISI [0] EQL 0)
472 0746 2  THEN

```

```
473 0747
474 0748
475 0749
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521 0795
522 0796
523 0797
524 0798
525 0799
526 0800
527 0801
528 0802
529 0803
```

```

+ First call, initialize FAB
-
BEGIN
$FAB_INIT (FAB = FAB,
           FAC = GET,           ! file access: GET
           FNA = .DEVICE_NAME, ! file name: DEVICE NAME
                               ! (SYS$INPUT or SYS$COMMAND)
           FNS = .DEVICE_NAME_LEN); ! file name size:
                                   ! 9 or 11 bytes

+ Open DEVICE_NAME, remember RMS internal stream identifier
-
RET_STATUS = $OPEN (FAB = FAB);           ! fab addr : FAB

+ If the OPEN fails, return the RMS status code.
-
IF ( NOT .RET_STATUS) THEN RETURN (.RET_STATUS);

$RAB_INIT (FAB = FAB, RAB = RAB);
RET_STATUS = $CONNECT (RAB = RAB); ! connect RAB to the file

+ Similarly, if the CONNECT fails, return the RMS status code.
-
IF ( NOT .RET_STATUS) THEN RETURN (.RET_STATUS);

GET_ISI [0] = .RAB [RAB$W_ISI];           ! remember ISI
END ! of first call

ELSE

+ file already open, just initialize RAB
+ including internal stream identifier returned from first $OPEN
-
BEGIN ! file already open
$RAB_INIT (FAB = FAB, RAB = RAB);
RAB [RAB$W_ISI] = .GET_ISI [0];
END; ! file already open

+ Determine which buffer area to read into, and how long it is.
+ Use LIB$ANALYZE_SDESC_R2 to get length and address of 1st data byte
+ of caller's buffer.
+ If the descriptor is invalid, return status returned by
+ LIB$ANALYZE_SDESC_R2.
-
IF .GET_STRING [DSC$B_CLASS] GTRU DSC$K_CLASS_D
THEN ! Use generalized extraction
BEGIN
LOCAL RET_STATUS ;
RET_STATUS = LIB$ANALYZE_SDESC_R2 ( .GET_STRING ;
```

```
530 0804 GET_STRING_LEN,  
531 0805 GET_STRING_ADDR ) ;  
532 0806  
533 0807 IF NOT .RET_STATUS THEN RETURN (.RET_STATUS) ;  
534 0808 END  
535 0809  
536 0810 ELSE ! Fetch length and address directly  
537 0811  
538 0812 BEGIN  
539 0813 GET_STRING_LEN = .GET_STRING [DSC$W_LENGTH] ;  
540 0814 GET_STRING_ADDR = .GET_STRING [DSC$A_POINTER] ;  
541 0815 END ;  
542 0816  
543 0817  
544 0818 + If GET_STRING is dynamic, we arrange to read onto a area of the  
545 0819 stack since the dynamic string may not be allocated.  
546 0820 However, if the dynamic string happens to be allocated and if it  
547 0821 contains more space than we would have used (256 bytes), then  
548 0822 we should use the space that the caller has provided.  
549 0823 -  
550 0824 IF .GET_STRING [DSC$B_CLASS] EQL DSC$K_CLASS_D  
551 0825 AND .GET_STRING_LEN LSSU K_DYN_STR_MAX  
552 0826 THEN  
553 0827 BEGIN  
554 0828 GET_STRING_LEN = K_DYN_STR_MAX ;  
555 0829 GET_STRING_ADDR = DYNAMIC_STR_BUF ;  
556 0830 END ;  
557 0831  
558 0832 +  
559 0833 If GET_STRING was varying, the length we want is MAXSTRLEN, not  
560 0834 CURLEN as returned by LIB$ANALYZE_SDESC_R2.  
561 0835 -  
562 0836 IF .GET_STRING [DSC$B_CLASS] EQL DSC$K_CLASS_VS  
563 0837 THEN  
564 0838 BEGIN  
565 0839 GET_STRING_LEN = .GET_STRING [DSC$W_MAXSTRLEN] ;  
566 0840 END ;  
567 0841 +  
568 0842 Set up RAB buffer address and length fields based on our computations.  
569 0843 -  
570 0844 RAB [RAB$L_UBF] = .GET_STRING_ADDR ;  
571 0845 RAB [RAB$W_USZ] = .GET_STRING_LEN ;  
572 0846  
573 0847 +  
574 0848 Setup prompt buffer address and size in RAB if PROMPT_STRING string  
575 0849 present. If Prompt string descriptor invalid, return status returned  
576 0850 by LIB$ANALYZE_SDESC_R2.  
577 0851 -  
578 0852  
579 0853 IF ( NOT NULLPARAMETER (2))  
580 0854 THEN  
581 0855 BEGIN  
582 0856 IF .PROMPT_STRING [DSC$B_CLASS] GTRU DSC$K_CLASS_D  
583 0857 THEN ! Use generalized extraction  
584 0858 BEGIN  
585 0859 LOCAL RET_STATUS ;  
586 0860 RET_STATUS = LIB$ANALYZE_SDESC_R2 ( .PROMPT_STRING ;
```



```
587 0861 4 PROMPT_STRING_LEN,  
588 0862 4 RAB [RAB$L_PBF] );!addr.  
589 0863 4 IF NOT .RET_STATUS THEN RETURN (.RET_STATUS) ;  
590 0864 4 END  
591 0865 4  
592 0866 3 ELSE ! Fetch length and address directly  
593 0867 4 BEGIN  
594 0868 4 PROMPT_STRING_LEN = .PROMPT_STRING [DSC$W_LENGTH] ;  
595 0869 4 RAB [RAB$L_PBF] = .PROMPT_STRING [DSC$A_POINTER] ;  
596 0870 4 END;  
597 0871 3  
598 0872 3 RAB [RAB$B_PSZ] = MINU (255, .PROMPT_STRING_LEN);  
599 0873 3 RAB [RAB$V_PMT] = 1;  
600 0874 2 END;  
601 0875 2  
602 0876 2  
603 0877 2 + Input the string as a single record  
604 0878 2 Return RMS error status if not RECORD TOO BIG or RECORD STREAM ACTIVE.  
605 0879 2 On record stream active, wait and try again.  
606 0880 2 -  
607 0881 2 GET_STATUS = $GET (RAB = RAB);  
608 0882 2  
609 0883 2 IF NOT .GET_STATUS  
610 0884 2 THEN  
611 0885 3 BEGIN  
612 0886 3 WHILE (.RAB [RAB$L_STS] EQL RMS$RSA) DO  
613 0887 4 BEGIN  
614 0888 4 $WAIT (RAB = RAB);  
615 0889 4 GET_STATUS = $GET (RAB = RAB);  
616 0890 3 END;  
617 0891 2 END;  
618 0892 2  
619 0893 2 +  
620 0894 2 Having read the record, we now have to worry about the semantics of  
621 0895 2 GET_STRING.  
622 0896 2 If GET_STRING has fixed-length semantics, we must blank fill the tail  
623 0897 2 end of the buffer that RMS didn't fill.  
624 0898 2 If GET_STRING has dynamic semantics, the input got read into an area  
625 0899 2 on the stack (or in the user's buffer) and needs to be copied  
626 0900 2 to GET_STRING.  
627 0901 2 If GET_STRING has varying string semantics we need to adjust the  
628 0902 2 CURLEN field to reflect how many bytes it really contains.  
629 0903 2 -  
630 0904 2 CASE .GET_STRING [DSC$B_CLASS]  
631 0905 2 FROM DSC$R_CLASS_Z TO DSC$K_CLASS_SB OF  
632 0906 2 SET  
633 0907 2 +  
634 0908 2 Classes with fixed-length string semantics  
635 0909 2 -  
636 0910 2 [DSC$K_CLASS_Z, ! Unspecified  
637 0911 2 DSC$K_CLASS_S, ! Scalar  
638 0912 2 DSC$K_CLASS_A, ! Array  
639 0913 2 DSC$K_CLASS_SD, ! Scaled decimal  
640 0914 2 DSC$K_CLASS_NCA, ! Non-contiguous array  
641 0915 2 DSC$K_CLASS_SB]; ! String with bounds  
642 0916 2 BEGIN ! fixed length processing  
643 0917 2 +
```

```
644 0918 : Because we opened the file in MOVE mode and used the
645 0919 : caller's string as the UBF, we need only blank pad the
646 0920 : area beyond the string; the actual data has been
647 0921 : moved into the front of the user's string by RMS.
648 0922 :
649 0923 : CH$FILL (XC' '
650 0924 :   .GET_STRING_LEN - .RAB [RAB$W_RSZ],
651 0925 :   .GET_STRING_ADDR + .RAB [RAB$W_RSZ]);
652 0926 : RET_STATUS = T; ! To denote copy success
653 0927 : END; ! fixed length processing
654 0928 :
655 0929 :
656 0930 :
657 0931 : + Classes with varying string semantics
658 0932 : -
659 0933 : [DSC$K_CLASS_VS]: ! Varying string
660 0934 : BEGIN ! varying length processing
661 0935 : (.GET_STRING [DSC$A_POINTER]) < 0, 16 > = .RAB [RAB$W_RSZ] ;
662 0936 : ! CURLEN <- bytes gotten
663 0937 : RET_STATUS = 1; ! To denote copy success
664 0938 : END; ! varying length processing
665 0939 :
666 0940 :
667 0941 : + Classes with dynamic string semantics
668 0942 : Even if we had read into the user's buffer, we still must
669 0943 : ensure that the length is correct.
670 0944 : -
671 0945 :
672 0946 : [DSC$K_CLASS_D]: ! Dynamic string
673 0947 : BEGIN ! dynamic length processing
674 0948 : RET_STATUS = LIB$SCOPY_R_DX6 (.RAB [RAB$W_RSZ],
675 0949 : (IF .GET_STRING_LEN LSSU K_DYN_STR_MAX
676 0950 : THEN
677 0951 : DYNAMIC_STR_BUF
678 0952 : ELSE
679 0953 : .GET_STRING_ADDR),
680 0954 : .GET_STRING);
681 0955 : END; ! dynamic length processing
682 0956 :
683 0957 : [INRANGE, OTRANGE]: ! Should never take this path since
684 0958 : ! a bad descriptor class code should
685 0959 : ! have gotten caught the first time
686 0960 : ! we tried to get GET_STRING's length
687 0961 : ! and address.
688 0962 : RETURN (LIB$_FATERRLIB) ;
689 0963 :
689 0964 : TES;
690 0965 : + If requested, tell the caller the number of bytes actually returned,
691 0966 : not counting blank padding, if any.
692 0967 : -
693 0968 :
694 0969 : IF ( NOT NULLPARAMETER (3))
695 0970 : THEN OUTLEN [0] = MINU (.RAB [RAB$W_RSZ], .GET_STRING_LEN);
696 0971 :
697 0972 : +
698 0973 : Return proper status code.
699 0974 : -
700
```

```

: 701      0975      2
: 702      0976      2
: 703      0977      2
: 704      0978      2
: 705      0979      2
: 706      0980      2
: 707      0981      2
: 708      0982      2
: 709      0983      2
: 710      0984      2
: 711      0985      2
: 712      0986      2
: 713      0987      1

```

```

IF .GET_STATUS EQLU RMS$_RTB
THEN
  RETURN (LIB$_INPSTRTRU)
ELSE IF NOT .GET_STATUS
THEN
  RETURN .GET_STATUS
ELSE IF NOT .RET_STATUS
THEN
  RETURN .RET_STATUS
ELSE RETURN $$$_NORMAL;
END;

```

! Record too big

! End of routine DO_GET

```

.EXTRN SY$$OPEN, SY$$CONNECT
.EXTRN SY$$GET, SY$$WAIT

```

```

: 0050 8F 00 00000000G 00 9E 00002 DO_GET: .WORD Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11 : 0633
:          5B 00000000G 00 9E 00002 MOVAB SY$$GET, R11
:          SA 00000000G 00 9E 00009 MOVAB LIB$ANALYZE_SDESC_R2, R10
:          SE FE6C CE 9E 00010 MOVAB -404(SP), SP
:          10 BC B5 00015 TSTW @GET_ISI : 0745
:          63 12 00018 BNEQ 3$
:          00 2C 0001A MOVCS #0, (SP), #0, #80, $RMS_PTR : 0755
:          B0 AD 00021
:          B0 AD 5003 8F B0 00023 MOVW #20483, $RMS_PTR
:          C6 AD 02 90 00029 MOVW #2, $RMS_PTR+22
:          CF AD 02 90 0002D MOVW #2, $RMS_PTR+31
:          DC AD 18 AC D0 00031 MOVL DEVICE_NAME, $RMS_PTR+44
:          E4 AD 14 AC 90 00036 MOVW DEVICE_NAME_LEN, $RMS_PTR+52
:          B0 AD 9F 0003B PUSHAB FAB : 0761
:          00000000G 00 01 FB 0003E CALLS #1, SY$$OPEN
:          59 50 D0 00045 MOVL R0, RET_STATUS
:          24 59 E9 00048 BLBC RET_STATUS, 1$ : 0767
:          0044 8F 00 6E 00 2C 0004B MOVCS #0, (SP), #0, #68, $RMS_PTR : 0769
:          FF6C CD 00052
:          FF6C CD 4401 8F B0 00055 MOVW #17409, $RMS_PTR
:          AB AD B0 AD 9E 0005C MOVAB FAB, $RMS_PTR+60
:          FF6C CD 9F 00061 PUSHAB RAB : 0770
:          00000000G 00 01 FB 00065 CALLS #1, SY$$CONNECT
:          59 50 D0 0006C MOVL R0, RET_STATUS
:          03 59 E8 0006F 1$: BLBS RET_STATUS, 2$ : 0776
:          10 BC FF6E 017B 31 00072 BRW 28$
:          2$: MOVW RAB+2, @GET_ISI : 0778
:          0044 8F 00 6E 00 2C 0007B BRB 4$ : 0745
:          FF6C CD 0007D 3$: MOVCS #0, (SP), #0, #68, $RMS_PTR : 0788
:          FF6C CD 00084
:          FF6C CD 4401 8F B0 00087 MOVW #17409, $RMS_PTR
:          AB AD B0 AD 9E 0008E MOVAB FAB, $RMS_PTR+60
:          FF6E CD 10 BC B0 00093 MOVW @GET_ISI, RAB+2 : 0789
:          56 04 AC D0 00099 4$: MOVL GET_STRING, R6 : 0799
:          02 03 A6 91 0009D CMPB 3(R6), #2
:          50 OF 1B 000A1 BLEQU 5$
:          56 D0 000A3 MOVL R6, R0 : 0803
:          6A 16 000A6 JSB LIB$ANALYZE_SDESC_R2

```

54		52	D0	000A8	MOVL	R2, R4		
57		51	D0	000AB	MOVL	R1, GET_STRING_LEN		
08		50	E8	000AE	BLBS	RET_STATUS, 6\$	0807	
		04	04	000B1	RET			
57		66	B0	000B2	5\$: MOVW	(R6), GET_STRING_LEN	0813	
54	04	A6	D0	000B5	MOVL	4(R6), GET_STRING_ADDR	0814	
02	03	A6	91	000B9	6\$: CMPB	3(R6), #2	0824	
		0F	12	000BD	BNEQ	7\$		
0100	8F	57	B1	000BF	CMPW	GET_STRING_LEN, #256	0825	
		08	1E	000C4	BGEQU	7\$		
57	0100	8F	B0	000C6	MOVW	#256, GET_STRING_LEN	0828	
54		6E	9E	000CB	MOVAB	DYNAMIC_STR_BUF, GET_STRING_ADDR	0829	
0B	03	A6	91	000CE	7\$: CMPB	3(R6), #11	0836	
		03	12	000D2	BNEQ	8\$		
57		66	B0	000D4	MOVW	(R6), GET_STRING_LEN	0839	
90	AD	54	D0	000D7	8\$: MOVL	GET_STRING_ADDR, RAB+36	0844	
8C	AD	57	B0	000DB	MOVW	GET_STRING_LEN, RAB+32	0845	
	02	6C	91	000DF	CMPB	(AP), #2	0853	
		3C	1F	000E2	BLSSU	12\$		
		08	AC	D5	000E4	TSTL	8(AP)	
53	08	37	13	000E7	BEQL	12\$		
02	03	AC	D0	000E9	MOVL	PROMPT_STRING, R3	0856	
		A3	91	000ED	CMPB	3(R3), #2		
		0D	1B	000F1	BLEQU	9\$		
50		53	D0	000F3	MOVL	R3, R0	0860	
		6A	16	000F6	JSB	LIB\$ANALYZE_SDESC_R2		
9C	AD	52	D0	000F8	MOVL	R2, RAB+48	0862	
	09	50	E8	000FC	BLBS	RET_STATUS, 10\$	0863	
		04	04	000FF	RET			
51		63	B0	00100	9\$: MOVW	(R3), PROMPT_STRING_LEN	0868	
9C	AD	A3	D0	00103	MOVL	4(R3), RAB+48	0869	
50		51	3C	00108	10\$: MOVZWL	PROMPT_STRING_LEN, R0	0872	
00FF	8F	50	B1	0010B	CMPW	R0, #255		
		04	1B	00110	BLEQU	11\$		
50	FF	8F	9A	00112	MOVZBL	#255, R0		
AD		50	90	00116	11\$: MOVB	R0, RAB+52		
FF73	CD	40	8F	88	0011A	BISB2	#64, RAB+7	0873
		FF6C	CD	9F	00120	12\$: PUSHAB	RAB	0881
6B		01	FB	00124	CALLS	#1, SYSSGET		
58		50	D0	00127	MOVL	R0, GET_STATUS		
22		58	E8	0012A	BLBS	GET_STATUS, 14\$	0883	
000182DA	8F	FF74	CD	D1	0012D	13\$: CMPL	RAB+8, #99034	0886
		17	12	00136	BNEQ	14\$		
00000U00G	00	FF6C	CD	9F	00138	PUSHAB	RAB	0888
		01	FB	0013C	CALLS	#1, SYSSWAIT		
		FF6C	CD	9F	00143	PUSHAB	RAB	0889
6B		01	FB	00147	CALLS	#1, SYSSGET		
58		50	D0	0014A	MOVL	R0, GET_STATUS		
		DE	11	0014D	BRB	13\$	0886	
	0F	00	A6	8F	0014F	14\$: CASEB	3(R6), #0, #15	0904
0020	0045	0028	0028	00154	15\$: .WORD	17\$-15\$,-		
0020	0020	0020	0028	0015C		17\$-15\$,-		
0038	0028	0028	0020	00164		20\$-15\$,-		
0028	0020	0020	0020	0016C		16\$-15\$,-		
						17\$-15\$,-		
						16\$-15\$,-		
						16\$-15\$,-		

						16\$-15\$,-			
						16\$-15\$,-			
						17\$-15\$,-			
						17\$-15\$,-			
						18\$-15\$,-			
						16\$-15\$,-			
						16\$-15\$,-			
						16\$-15\$,-			
						17\$-15\$			
		50	00000000G	00	9E 00174	16\$:	MOVAB	LIB\$_FATERRLIB, R0	0962
					04 0017B		RET		
		50		8E	AD 3C 0017C	17\$:	MOVZWL	RAB+34, R0	0924
		51			57 3C 00180		MOVZWL	GET_STRING_LEN, R1	
		51			50 C2 00183		SUBL2	R0, R1	
51	20	6E			00 2C 00186		MOVCS	#0, (SP), #32, R1, (R0)[GET_STRING_ADDR]	0925
					6044 0018B				
					05 11 0018D		BRB	19\$	0926
	04	86		8E	AD B0 0018F	18\$:	MOVW	RAB+34, @4(R6)	0935
		59			01 D0 00194	19\$:	MOVL	#1, RET_STATUS	0937
					22 11 00197		BRB	23\$	0904
	0100	8F			57 B1 00199	20\$:	CMPW	GET_STRING_LEN, #256	0949
					08 1E 0019E		BGEQU	21\$	
		52			6E 9E 001A0		MOVAB	DYNAMIC_STR_BUF, R2	
		51			52 C0 001A3		MOVL	R2, R1	
					03 11 001A6		BRB	22\$	
		51			54 D0 001A8	21\$:	MOVL	GET_STRING_ADDR, R1	0953
		52			56 D0 001AB	22\$:	MOVL	R6, R2	0948
		50		8E	AD 3C 001AE		MOVZWL	RAB+34, R0	
			00000000G		00 16 001B2		JSB	LIB\$SCOPY_R_DX6	
		59			50 D0 001BB		MOVL	R0, RET_STATUS	
		03			6C 91 001BB	23\$:	CMPB	(AP), #3	0969
					15 1F 001BE		BLSSU	25\$	
				0C	AC D5 001C0		TSTL	12(AP)	
					10 13 001C3		BEQL	25\$	
		50		8E	AD 3C 001C5		MOVZWL	RAB+34, R0	0970
		50			57 B1 001C9		CMPW	GET_STRING_LEN, R0	
					03 1E 001CC		BGEQU	24\$	
		50			57 3C 001CE		MOVZWL	GET_STRING_LEN, R0	
	0C	BC			50 B0 001D1	24\$:	MOVW	R0, @OUTLEN	
	000181A8	8F			58 D1 001D5	25\$:	CMPL	GET_STATUS, #98728	0976
					08 12 001DC		BNEQ	26\$	
		50	00000000G		00 9E 001DE		MOVAB	LIB\$_INPSTRTRU, R0	0978
					04 001E5		RET		0979
		04			58 E8 001E6	26\$:	BLBS	GET_STATUS, 27\$	
		50			58 D0 001E9		MOVL	GET_STATUS, R0	0981
					04 001EC		RET		
		04			59 E8 001ED	27\$:	BLBS	RET_STATUS, 29\$	0982
		50			59 D0 001F0	28\$:	MOVL	RET_STATUS, R0	0984
					04 001F3		RET		
		50			01 D0 001F4	29\$:	MOVL	#1, R0	0985
					04 001F7		RET		0987

: Routine Size: 504 bytes, Routine Base: _LIB\$CODE + 0088

: 714 0988 1 END
: 715 0989 1

!End of module LIB\$GET_INPUT

LIB\$GET_INPUT
1-015

L 9
16-Sep-1984 01:00:46
14-Sep-1984 12:38:58

VAX-11 Bliss-32 V4.0-742
[LIBRTL.SRC]LIBGETINP.B32;1

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(5)

: 716 0990 0 ELUDOM

PSECT SUMMARY

Name	Bytes	Attributes
LIB\$DATA	4	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, PIC, ALIGN(2)
LIB\$CODE	640	NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(2)

Library Statistics

File	Symbols		Pages Mapped	Processing Time
	Total	Loaded Percent		
_\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	87 0	581	00:00.8

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACE/LIS=LIS\$:LIBGETINP/OBJ=OBJ\$:LIBGETINP MSRC\$:LIBGETINP/UPDATE=(ENH\$:LIBGETINP)

: Size: 616 code + 28 data bytes
: Run Time: 00:11.7
: Elapsed Time: 00:41.5
: Lines/CPU Min: 5089
: Lexemes/CPU-Min: 40128
: Memory Used: 192 pages
: Compilation Complete

