


```

LL          IIIIII  BBBB8888  GGGGGGGG  EEEEEEEEE  TTTTTTTTTT  SSSSSSSS  YY      YY      IIIIII
LL          IIIIII  BBBB8888  GGGGGGGG  EEEEEEEEE  TTTTTTTTTT  SSSSSSSS  YY      YY      IIIIII
LL          II      BB      BB      GG          EE          TT          SS          YY      YY      II
LL          II      BB      BB      GG          EE          TT          SS          YY      YY      II
LL          II      BB      BB      GG          EE          TT          SS          YY      YY      II
LL          II      BBBB8888  GG          EEEEEEEEE  TT          SS          YY      YY      II
LL          II      BBBB8888  GG          EEEEEEEEE  TT          SS          YY      YY      II
LL          II      BB      BB      GG  GGGGGG  EE          TT          SS          YY      YY      II
LL          II      BB      BB      GG  GGGGGG  EE          TT          SS          YY      YY      II
LL          II      BB      BB      GG          GG          EE          TT          SS          YY      YY      II
LL          II      BB      BB      GG          GG          EE          TT          SS          YY      YY      II
LLLLLLLLLLL IIIIII  BBBB8888  GGGGGG  EEEEEEEEE  TT          SSSSSSSS  YY      YY      IIIIII
LLLLLLLLLLL IIIIII  BBBB8888  GGGGGG  EEEEEEEEE  TT          SSSSSSSS  YY      YY      IIIIII

```

```

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
LLLLLLLLLLL IIIIII  SSSSSSSS
LLLLLLLLLLL IIIIII  SSSSSSSS

```

```

1 0001 0 MODULE LIB$GETSYI ( %TITLE 'Get System-Wide Information'
2 0002 0 IDENT = '1-007' ! File: LIBGETSYI.B32 Edit: MDL1007
3 0003 0 ) =
4 0004 1 BEGIN
5 0005 1
6 0006 1 *****
7 0007 1 *
8 0008 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY *
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25 0025 1 *
26 0026 1 *
27 0027 1 *****
28 0028 1
29 0029 1
30 0030 1 ++
31 0031 1 FACILITY: General Utility Library
32 0032 1
33 0033 1 ABSTRACT:
34 0034 1
35 0035 1 LIB$GETSYI obtains a specified item of System-Wide
36 0036 1 and formats it in an appropriate manner.
37 0037 1
38 0038 1 ENVIRONMENT: User mode - AST reentrant
39 0039 1
40 0040 1 AUTHOR: Steven B. Lionel, CREATION DATE: 11-Jan-1983
41 0041 1
42 0042 1 MODIFIED BY:
43 0043 1
44 0044 1 1-001 - Original. SBL 11-Jan-1983
45 0045 1 1-002 - Change format codes to LIB$K_FMT. SBL 11-Mar-1983
46 0046 1 1-003 - Change string length to 512. SBL 11-Mar-1983
47 0047 1 1-004 - Add support for new argument to SYS$GETSYI - NODENAME and
48 0048 1 CSID. DG 19-Oct-1983
49 0049 1 1-005 - Take out support added in 004 temporarily. DG 18-Feb-1984
50 0050 1 1-006 - Add support from 004 again - this time only passing the
51 0051 1 optional arguments if they are present. DG 20-Mar-1984
52 0052 1 1-007 - Optional argument CSID should be passed as a 0 by value if not
53 0053 1 present, not by reference. MDL 19-Jul-1984
54 0054 1 --
55 0055 1

```

```
.. 57 0056 1 %SBTTL 'Declarations'
.. 58 0057 1
.. 59 0058 1 : PROLOGUE FILE:
.. 60 0059 1
.. 61 0060 1
.. 62 0061 1 REQUIRE 'RTLIN:LIBPROLOG';           ! Switches, PSECTS, macros
.. 63 0132 1
.. 64 0133 1
.. 65 0134 1 : LINKAGES:
.. 66 0135 1
.. 67 0136 1 : NONE
.. 68 0137 1
.. 69 0138 1 : TABLE OF CONTENTS:
.. 70 0139 1
.. 71 0140 1
.. 72 0141 1 FORWARD ROUTINE
.. 73 0142 1 LIB$GETSYI;                         ! Get System-Wide Information
.. 74 0143 1
.. 75 0144 1
.. 76 0145 1 : MACROS:
.. 77 0146 1
.. 78 0147 1 : NONE
.. 79 0148 1
.. 80 0149 1 : EQUATED SYMBOLS:
.. 81 0150 1
.. 82 0151 1 : NONE
.. 83 0152 1
.. 84 0153 1 : FIELDS:
.. 85 0154 1
.. 86 0155 1 : NONE
.. 87 0156 1
.. 88 0157 1 : OWN STORAGE:
.. 89 0158 1
.. 90 0159 1 : NONE
.. 91 0160 1
.. 92 0161 1 : EXTERNALS:
.. 93 0162 1
.. 94 0163 1
.. 95 0164 1 EXTERNAL ROUTINE
.. 96 0165 1 LIB$$GETSYI,                         ! Internal routine
.. 97 0166 1 LIB$ANALYZE_SDESC_R2: LIB$ANALYZE_SDESC_R2$LINKAGE, ! Get length and pointer
.. 98 0167 1 LIB$GET_EF,                           ! Allocate event flag number
.. 99 0168 1 LIB$FREE_EF: NOVALUE,                 ! Free event flag number
100 0169 1 LIB$COPY_R_DX6: LIB$COPY_R_DX6$LINKAGE; ! Copy string by reference.
101 0170 1
102 0171 1 EXTERNAL LITERAL
103 0172 1 LIB$_INVARG,                           ! Invalid argument
104 0173 1 LIB$_STRTRU;                             ! String truncated
```

```
0174 1 %SBTTL 'LIB$GETSYI - Get Device/Volume Information'
0175 1 GLOBAL ROUTINE LIB$GETSYI (
0176 1     ITEM_CODE: REF VECTOR [, WORD],      | Code of desired item
0177 1     OUT_VALUE: REF VECTOR [, LONG],       | Output numeric value
0178 1     OUT_STRING: REF BLOCK [, BYTE],      | Output string descriptor
0179 1     OUT_LEN: REF VECTOR [, WORD],        | Output string length
0180 1     CSID: REF VECTOR [, LONG],          | Node identification (CSID)
0181 1     NODE_NAME: REF BLOCK [, BYTE]       | Node name descriptor
0182 1 ) =
0183 1
0184 1 ++
0185 1 FUNCTIONAL DESCRIPTION:
0186 1
0187 1     LIB$GETSYI provides a simplified interface to the $GETSYI system
0188 1     service. It provides status and identification information about
0189 1     the system.
0190 1
0191 1     LIB$GETSYI provides the following features in addition to those
0192 1     provided by the $GETSYI system service:
0193 1
0194 1     o Instead of a list of item descriptors, which may be
0195 1     difficult to construct in high-level languages, the
0196 1     single item desired is specified as an integer code
0197 1     which is passed by reference. Results are written to
0198 1     separate arguments.
0199 1
0200 1     o For items which return numeric values, LIB$GETSYI can
0201 1     optionally provide a formatted string interpretation of
0202 1     the value.
0203 1
0204 1     o For string arguments, all string classes supported by
0205 1     the Run-Time Library are understood.
0206 1
0207 1     o Calls to LIB$GETSYI are synchronous. LIB$GETSYI calls
0208 1     LIB$GET_EF to allocate a local event flag number for
0209 1     synchronization.
0210 1
0211 1     LIB$GETSYI does not provide the ability to obtain more than one
0212 1     item of information in a single call.
0213 1
0214 1 CALLING SEQUENCE:
0215 1
0216 1     ret-status.wlc.v = LIB$GETSYI (
0217 1         item-code.rw.r,
0218 1         [out-value.wz.r]
0219 1         [, [out-string.wt.dx]
0220 1         [, [out-len.wvu.r] ] ]
0221 1         [, csid.mlu.r]
0222 1         [, node-name.rt.dx])
0223 1
0224 1 FORMAL PARAMETERS:
0225 1
0226 1     item-code
0227 1     A longword integer item identifier code that specifies which item
0228 1     of information you are requesting. All valid $GETSYI item codes,
0229 1     whose names begin with SYIS_, are accepted.
0230 1
```

```
163 0231 1 out-value
164 0232 1 A longword or quadword into which is placed the numeric
165 0233 1 value of the information requested. If an item only returns
166 0234 1 a string value, this parameter is ignored.
167 0235 1
168 0236 1 out-string
169 0237 1 A string into which is placed the string representation of
170 0238 1 the information requested. If out-string is not specified,
171 0239 1 and the value returned has only a string representation, the
172 0240 1 error status LIB$_INVARG is returned.
173 0241 1
174 0242 1 out-len
175 0243 1 A word integer into which is placed the number of significant
176 0244 1 characters written to out-string, not including blank padding
177 0245 1 or truncated characters.
178 0246 1
179 0247 1 csid
180 0248 1 A longword specifying the node identification (CSID) of the
181 0249 1 node for which information is to be returned. If not
182 0250 1 specified, node-name is used. The longword is updated to
183 0251 1 contain the CSID actually used, which may be different than
184 0252 1 what was originally specified if node-name is specified or
185 0253 1 if "wild card node searching" is used.
186 0254 1
187 0255 1 node-name
188 0256 1 A string specifying the name of the node for which
189 0257 1 information is to be returned. If not specified, csid
190 0258 1 is used. If neither node-name or csid are
191 0259 1 specified, the caller's node is used. See the
192 0260 1 description of the csid argument for more information.
193 0261 1
194 0262 1 IMPLICIT INPUTS:
195 0263 1
196 0264 1 NONE
197 0265 1
198 0266 1 IMPLICIT OUTPUTS:
199 0267 1
200 0268 1 NONE
201 0269 1
202 0270 1 COMPLETION STATUS:
203 0271 1
204 0272 1 SSS_NORMAL Normal successful completion
205 0273 1 LIB$_STRTRU String truncated. This is an alternate success status.
206 0274 1 LIB$_INSEF Insufficient event flags
207 0275 1 LIB$_INVSTRDES Invalid string descriptor
208 0276 1 LIB$_WRONUMARG Wrong number of arguments
209 0277 1 LIB$_xxx Any error status from LIB$SCOPY_R_DX
210 0278 1 SSS_BADPARAM The item code is not recognized as valid.
211 0279 1 SSS_XXX Any error status from $GETSYI
212 0280 1
213 0281 1 SIDE EFFECTS:
214 0282 1
215 0283 1 NONE
216 0284 1
217 0285 1 --
```

```
219 0286 2 BEGIN
220 0287 2
221 0288 2 LOCAL
222 0289 2 RET_STRING: VECTOR [512, BYTE], ! Local string for value
223 0290 2 RET_LENGTH: WORD, ! Length of RET_STRING
224 0291 2 RET_NUMBER: VECTOR [2, LONG], ! Local quadword for value
225 0292 2 RET_TYPE, ! Returned type code
226 0293 2 EVENT_FLAG, ! Event flag number
227 0294 2 EF_STATUS, SYI_STATUS, COPY_STATUS, ! Return statuses
228 0295 2 STR_STATUS,
229 0296 2 LCL_NODE_NAM_DSC: BLOCK [8, BYTE], ! Local descriptor for NODE_NAM
230 0297 2 NODE_NAM_DSC_ADR; ! Address of NODE_NAM descriptor
231 0298 2
232 0299 2 BUILTIN
233 0300 2 NULLPARAMETER;
234 0301 2
235 0302 2 !+
236 0303 2 ! Validate argument count.
237 0304 2 !-
238 0305 2
239 0306 2 $LIB$VALIDATE_ARGCOUNT (2,6);
240 0307 2
241 0308 2 !+
242 0309 2 ! Build static descriptor for NODE_NAME, if any.
243 0310 2 !-
244 0311 2
245 0312 2 IF NULLPARAMETER (6)
246 0313 2 THEN
247 0314 2 NODE_NAM_DSC_ADR = 0 ! Omitted
248 0315 2 ELSE
249 0316 2 BEGIN
250 0317 2 LCL_NODE_NAM_DSC [DSC$B_DTYPE] = DSC$K_DTYPE_T;
251 0318 2 LCL_NODE_NAM_DSC [DSC$B_CLASS] = DSC$K_CLASS_S;
252 0319 2 STR_STATUS = LIB$ANALYZE_SDESC_R2 (NODE_NAME [0,0,0,0];
253 0320 2 LCL_NODE_NAM_DSC [DSC$W_LENGTH], LCL_NODE_NAM_DSC [DSC$A_POINTER]);
254 0321 2 IF NOT .STR_STATUS
255 0322 2 THEN
256 0323 2 RETURN .STR_STATUS;
257 0324 2 NODE_NAM_DSC_ADR = LCL_NODE_NAM_DSC;
258 0325 2 END;
259 0326 2
260 0327 2 !+
261 0328 2 ! Allocate an event flag number to use for the $GETSYI.
262 0329 2 !-
263 0330 2
264 0331 2 EF_STATUS = LIB$GET_EF (EVENT_FLAG);
265 0332 2 IF NOT .EF_STATUS
266 0333 2 THEN
267 0334 2 RETURN .EF_STATUS;
268 0335 2
269 0336 2 !+
270 0337 2 ! Call LIB$$GETSYI to do the work.
271 0338 2 !-
272 0339 2
273 0340 2 SYI_STATUS = LIB$$GETSYI (
274 0341 2 .ITEM_CODE [0],
275 0342 2 RET_STRING,
```

```
276 0343 2      RET_NUMBER,  
277 0344 2      RET_LENGTH,  
278 0345 2      RET_TYPE,  
279 0346 2      .EVENT_FLAG,  
280 0347 2      ( IF NULLPARAMETER (5)  
281 0348 2      THEN  
282 0349 2      0 ! Omitted  
283 0350 2      ELSE  
284 0351 2      .CSID ),  
285 0352 2      .NODE_NAME_DSC_ADR);  
286 0353 2  
287 0354 2      !+  
288 0355 2      ! Free the event flag.  
289 0356 2      !-  
290 0357 2  
291 0358 2      LIB$FREE_EF (EVENT_FLAG);  
292 0359 2  
293 0360 2      !+  
294 0361 2      ! Check for errors.  
295 0362 2      !-  
296 0363 2  
297 0364 2      IF NOT .SYI_STATUS  
298 0365 2      THEN  
299 0366 2      RETURN .SYI_STATUS;  
300 0367 2  
301 0368 2      !+  
302 0369 2      ! Copy the numeric value, if desired.  
303 0370 2      !-  
304 0371 2  
305 0372 2      IF OUT_VALUE [0] NEQA 0  
306 0373 2      THEN  
307 0374 2      BEGIN  
308 0375 2      IF .RET_TYPE GTRU LIB$K_FMT_MAXSTRING ! Is it a number?  
309 0376 2      THEN  
310 0377 2      BEGIN  
311 0378 2      OUT_VALUE [0] = .RET_NUMBER [0];  
312 0379 2      IF .RET_TYPE EQL LIB$K_FMT_DATE OR  
313 0380 2      .RET_TYPE EQL LIB$K_FMT_PRIVILEGE  
314 0381 2      THEN  
315 0382 2      OUT_VALUE [1] = .RET_NUMBER [1]; ! Store second longword  
316 0383 2      END;  
317 0384 2      END;  
318 0385 2  
319 0386 2      !+  
320 0387 2      ! Store string value if desired.  
321 0388 2      !-  
322 0389 2  
323 0390 2      IF NOT NULLPARAMETER (3)  
324 0391 2      THEN  
325 0392 2      BEGIN  
326 0393 2      COPY_STATUS = LIB$SCOPY_R_DX6 (.RET_LENGTH, RET_STRING,  
327 0394 2      OUT_STRING [0,0,0,0]);  
328 0395 2      IF NOT NULLPARAMETER (4)  
329 0396 2      THEN  
330 0397 2      BEGIN  
331 0398 2      !+  
332 0399 2      ! Store result string length.
```



```

: 333 0400 4      !-
: 334 0401 4      OUT_LEN [0] = .RET LENGTH;
: 335 0402 4      IF .COPY_STATUS EQU LIB$_STRTRU
: 336 0403 4      THEN
: 337 0404 4      LIB$ANALYZE_SDESC_R2 (OUT_STRING [0,0,0,0]; OUT_LEN [0]);
: 338 0405 4      END;
: 339 0406 3      RETURN .COPY_STATUS;
: 340 0407 3      END
: 341 0408 2      ELSE IF .RET_TYPE LEQU LIB$_K_FMT_MAXSTRING
: 342 0409 2      THEN
: 343 0410 2      RETURN LIB$_INVARG;      ! Only string value, but nothing to return it in
: 344 0411 2
: 345 0412 2      RETURN SSS$_NORMAL;      ! Success
: 346 0413 2
: 347 0414 1      END;

```

! End of routine LIB\$GETSYI

.TITLE LIB\$GETSYI Get System-Wide Information
.IDENT \1-007\

.EXTRN LIB\$GETSYI, LIB\$ANALYZE_SDESC_R2
.EXTRN LIB\$GET_EF, LIB\$FREE_EF
.EXTRN LIB\$COPY_R_DX6
.EXTRN LIB\$_INVARG, LIB\$_STRTRU
.EXTRN LIB\$_WRONUMARG

.PSECT _LIB\$CODE, NOWRT, SHR, PIC, 2

			00FC 00000	.ENTRY LIB\$GETSYI, Save R2,R3,R4,R5,R6,R7	: 0175
	57	00000000G	00 9E 000C2	MOVAB LIB\$ANALYZE_SDESC_R2, R7	
	5E	FDE4	CE 9E 00009	MOVAB -540(SP), SP	
50	6C		02 83 0000E	SUBB3 #2, (AP), DIFF	: 0306
	04		50 91 00012	CMPB DIFF, #4	
			08 1B 00015	BLEQU 1\$	
	50	00000000G	8F D0 00017	MOVL #LIB\$_WRONUMARG, R0	
			04 0001E	RET	
	06		6C 91 0001F 1\$:	CMPB (AP), #6	: 0312
			05 1F 00022	BLSSU 2\$	
		18	AC D5 00024	TSTL 24(AP)	
			04 12 00027	BNEQ 3\$	
			53 D4 00029 2\$:	CLRL NODE_NAM_DSC_ADR	: 0314
			1B 11 0002B	BRB 4\$	
	0E	AE 010E	8F B0 0002D 3\$:	MOVW #270, LCL_NODE_NAM_DSC+2	: 0317
		18	AC D0 00033	MOVL NODE_NAME, R0	: 0320
			67 16 00037	JSB LIB\$ANALYZE_SDESC_R2	
	0C	AE	51 80 00039	MOVW R1, LCL_NODE_NAM_DSC	
	10	AE	52 D0 0003D	MOVL R2, LCL_NODE_NAM_DSC+4	
		0E	50 E9 00041	BLBC STR_STATUS, 5\$: 0321
		0C	AE 9E 00044	MOVAB LCL_NODE_NAM_DSC, NODE_NAM_DSC_ADR	: 0324
		08	AE 9F 00048 4\$:	PUSHAB EVENT_FLAG	: 0331
	00000000G	00	01 FB 0004B	CALLS #1, LIB\$GET_EF	
		01	50 E8 00052 5\$:	BLBS EF_STATUS, 6\$: 0332
			04 00055	RET	
			53 DD 00056 6\$:	PUSHL NODE_NAM_DSC_ADR	: 0352
		05	6C 91 00058	CMPB (AP), #5	: 0347
			05 1F 0005B	BLSSU 7\$	
		14	AC D5 0005D	TSTL 20(AP)	

			04	12	00060		BNEQ	8\$		
			7E	D4	00062	7\$:	CLRL	-(SP)		
			06	11	00064		BRB	9\$		
	50		14	AC	9E 00066	8\$:	MOVAB	CSID, R0		
				50	DD 0006A		PUSHL	R0		
				10	AE DD 0006C	9\$:	PUSHL	EVENT_FLAG		0346
				0C	AE 9F 0006F		PUSHAB	RET_TYPE		0340
				14	AE 9F 00072		PUSHAB	RET_LENGTH		
				28	AE 9F 00075		PUSHAB	RET_NUMBER		
				34	AE 9F 00078		PUSHAB	RET_STRING		
	7E			04	2C 3C 0007B		MOVZWL	@ITEM_CODE, -(SP)		0341
00000000G	00			08	FB 0007F		CALLS	#8, LIB\$\$GETSYI		
	52			50	D0 00086		MOVL	R0, SYI_STATUS		
				08	AE 9F 00089		PUSHAB	EVENT_FLAG		0358
00000000G	00			01	FB 0008C		CALLS	#1, LIB\$FREE_EF		
	04			52	E8 00093		BLBS	SYI_STATUS, T0\$		0364
	50			52	D0 00096		MOVL	SYI_STATUS, R0		0366
				04	00099		RET			
	50			08	AC D0 0009A	10\$:	MOVL	OUT_VALUE, R0		0372
				18	13 0009E		BEQL	12\$		
	03			6E	D1 000A0		CMPL	RET_TYPE, #3		0375
				13	1B 000A3		BLEQU	12\$		
	60			14	AE D0 000A5		MOVL	RET_NUMBER, (R0)		0378
	08			6E	D1 000A9		CMPL	RET_TYPE, #11		0379
				05	13 000AC		BEQL	11\$		
	0C			6E	D1 000AE		CMPL	RET_TYPE, #12		0380
				05	12 000B1		BNEQ	12\$		
	04			18	AE D0 000B3	11\$:	MOVL	RET_NUMBER+4, 4(R0)		0382
	03			6C	91 000B8	12\$:	CMPB	(AP), #3		0390
				40	1F 000BB		BLSSU	14\$		
				0C	AC D5 000BD		TSTL	12(AP)		
				3B	13 000C0		BEQL	14\$		
	51			1C	AE 9E 000C2		MOVAB	RET_STRING, R1		0393
	52			0C	AC D0 000C6		MOVL	OUT_STRING, R2		0394
	50			04	AE 3C 000CA		MOVZWL	RET_LENGTH, R0		
		00000000G		00	16 000CE		JSB	LIB\$COPY_R_DX6		
	53			50	D0 000D4		MOVL	R0, COPY_STATUS		
	04			6C	91 000D7		CMPB	(AP), #4		0395
				1D	1F 000DA		BLSSU	13\$		
				10	AC D5 000DC		TSTL	16(AP)		
				18	13 000DF		BEQL	13\$		
	10			04	AE B0 000E1		MOVW	RET_LENGTH, @OUT_LEN		0401
00000000G	8F			53	D1 000E6		CMPL	COPY_STATUS, #LIB\$_STRTRU		0402
				0A	12 000ED		BNEQ	13\$		
	50			0C	AC D0 000EF		MOVL	OUT_STRING, R0		0404
				67	16 000F3		JSB	LIB\$ANALYZE_SDESC_R2		
	10			51	B0 000F5		MOVW	R1, @OUT_LEN		
	50			53	D0 000F9	13\$:	MOVL	COPY_STATUS, R0		0406
				04	000FC		RET			
	03			6E	D1 000FD	14\$:	CMPL	RET_TYPE, #3		0408
				08	1A 00100		BGTRU	15\$		
	50	00000000G		8F	D0 00102		MOVL	#LIB\$_INVARG, R0		0410
				04	00109		RET			
	50			01	D0 0010A	15\$:	MOVL	#1, R0		0412
				04	0010D		RET			0414

; Routine Size: 270 bytes, Routine Base: _LIB\$CODE + 0000

LIB\$GETSYI
1-007

Get System-Wide Information
LIB\$GETSYI - Get Device/Volume Information

K 12
16-Sep-1984 01:03:20
14-Sep-1984 12:39:00

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

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