

```

NNN      NNN  MMM      MMM  LLL
NNN      NNN  MMM      MMM  LLL
NNN      NNN  MMM      MMM  LLL
NNN      NNN  MMMMMM   MMMMMM LLL
NNN      NNN  MMMMMM   MMMMMM LLL
NNN      NNN  MMMMMM   MMMMMM LLL
NNNNNN   NNN  MMM      MMM  LLL
NNNNNN   NNN  MMM      MMM  LLL
NNNNNN   NNN  MMM      MMM  LLL
NNN      NNN  NNN      MMM  LLL
NNN      NNN  NNN      MMM  LLL
NNN      NNN  NNN      MMM  LLL
NNN      NNN  NNN      MMM  LLL
NNN      NNNNNN  MMM      MMM  LLL
NNN      NNNNNN  MMM      MMM  LLL
NNN      NNN      MMM      MMM  LLL
NNN      NNN      MMM      MMM  LLL
NNN      NNN      MMM      MMM  LLL
NNN      NNN      MMM      MMM  LLLLLLLLLLLLLLLLLL
NNN      NNN      MMM      MMM  LLLLLLLLLLLLLLLLLL
NNN      NNN      MMM      MMM  LLLLLLLLLLLLLLLLLL

```

\_S

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NP

PA

-L

```

NN      NN  MM  MM  LL      SSSSSSSS  HH  HH  000000  PPPPPPPP  RRRRRRRR  MM  MM
NN      NN  MM  MM  LL      SSSSSSSS  HH  HH  000000  PPPPPPPP  RRRRRRRR  MM  MM
NN      NN  MMMM MMMM LL      SS        HH  HH  00      00  PP      PP  RR      RR  MMMM  MMMM
NN      NN  MMMM MMMM LL      SS        HH  HH  00      00  PP      PP  RR      RR  MMMM  MMMM
NNNN    NN  MM  MM  LL      SS        HH  HH  00      00  PP      PP  RR      RR  MM  MM  MM
NNNN    NN  MM  MM  LL      SS        HH  HH  00      00  PP      PP  RR      RR  MM  MM  MM
NN  NN  NN  MM  MM  LL      SSSSSS    HHHHHHHHHH 00      00  PPPPPPPP  RRRRRRRR  MM  MM
NN  NN  NN  MM  MM  LL      SSSSSS    HHHHHHHHHH 00      00  PPPPPPPP  RRRRRRRR  MM  MM
NN      NNNN  MM  MM  LL      SS        HH  HH  00      00  PP      PP  RR  RR  MM  MM
NN      NNNN  MM  MM  LL      SS        HH  HH  00      00  PP      PP  RR  RR  MM  MM
NN      NN  MM  MM  LL      SS        HH  HH  00      00  PP      PP  RR      RR  MM  MM
NN      NN  MM  MM  LL      SS        HH  HH  00      00  PP      PP  RR      RR  MM  MM
NN      NN  MM  MM  LLLLLLLLLL SSSSSSSS  HH  HH  000000  PP      RR      RR  MM  MM
NN      NN  MM  MM  LLLLLLLLLL SSSSSSSS  HH  HH  000000  PP      RR      RR  MM  MM

```

```

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
LLLLLLLLLL IIIIII  SSSSSSSS
LLLLLLLLLL IIIIII  SSSSSSSS

```

```
1 0001 0 %TITLE 'NML special volatile parameter handling routines'
2 0002 0 MODULE NML$SHOPRM (
3 0003 0     LANGUAGE (BLISS32),
4 0004 0     ADDRESSING_MODE (NONEXTERNAL=GENERAL),
5 0005 0     ADDRESSING_MODE (EXTERNAL=GENERAL),
6 0006 0     IDENT = 'V04-000'
7 0007 0 ) =
8 0008 1 BEGIN
9 0009 1
10 0010 1 *****
11 0011 1 *
12 0012 1 *  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
13 0013 1 *  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
14 0014 1 *  ALL RIGHTS RESERVED.
15 0015 1 *
16 0016 1 *  THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
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18 0018 1 *  INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
19 0019 1 *  COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
20 0020 1 *  OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
21 0021 1 *  TRANSFERRED.
22 0022 1 *
23 0023 1 *  THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
24 0024 1 *  AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
25 0025 1 *  CORPORATION.
26 0026 1 *
27 0027 1 *  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
28 0028 1 *  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
29 0029 1 *
30 0030 1 *
31 0031 1 *****
32 0032 1
33 0033 1
34 0034 1 **
35 0035 1 FACILITY:  DECnet-VAX V2.0 Network Management Listener
36 0036 1
37 0037 1 ABSTRACT:
38 0038 1
39 0039 1     This module contains routines to process volatile data base
40 0040 1     information from the NETACP QIO buffer.
41 0041 1
42 0042 1 ENVIRONMENT:  VAX/VMS Operating System
43 0043 1
44 0044 1 AUTHOR:  Distributed Systems Software Engineering
45 0045 1
46 0046 1 CREATION DATE:  23-JAN-1980
47 0047 1
48 0048 1 MODIFIED BY:
49 0049 1
50 0050 1     V03-009 MKP0011      Kathy Perko      9-April-1984
51 0051 1     If returning a node address to a Phase III NCP, clear the
52 0052 1     area number if it's in the executor's area.  If it's not in
53 0053 1     the executor's area, return it as is - that's the best I
54 0054 1     can do.
55 0055 1
56 0056 1     V03-008 MKP0010      Kathy Perko      18-Oct-1983
57 0057 1     Fix previous bug correctly.
```

58	0058	1	
59	0059	1	V03-007 MKP0009 Kathy Perko 27-Sept-1983
60	0060	1	Fix NMLSSHONODEID so it skips over the node name if no
61	0061	1	address is returned.
62	0062	1	
63	0063	1	V03-006 MKP0008 Kathy Perko 17-Aug-1983
64	0064	1	Fix NMLSSHOEXEPARAM to call NMLSSHONODEID for EXECUTOR node
65	0065	1	ALIAS parameter.
66	0066	1	
67	0067	1	V03-005 MKP0007 Kathy Perko 29-July-1983
68	0068	1	Add EXECUTOR node parameter, ALIAS, and clean up routines
69	0069	1	that SHOW node ids.
70	0070	1	
71	0071	1	V03-004 MKP0006 Kathy Perko 29-Nov-1982
72	0072	1	If NCP is using NICE V3.0.0, clear the area number out of
73	0073	1	any node numbers returned.
74	0074	1	
75	0075	1	V03-003 MKP0005 Kathy Perko 24-Nov-1982
76	0076	1	If NETACP doesn't return a state for a node, don't
77	0077	1	return one to NCP.
78	0078	1	
79	0079	1	V03-002 MKP0004 Kathy Perko 25-June-1982
80	0080	1	Executur and X2n Server Destination subaddresses are now
81	0081	1	both returned by the ACP as longwords. Fix up the show
82	0082	1	routines accordingly.
83	0083	1	
84	0084	1	V03-001 MKP0003 Kathy Perko 1-April-1982
85	0085	1	Make changes for X-25 Protocol and Server Modules.
86	0086	1	Also combine some routines to make NMLSHR smaller.
87	0087	1	
88	0088	1	V02-002 MKP0002 Kathy Perko 3-Jan-1982
89	0089	1	Delete routine NMLSSHOLINKS. It has been moved to the
90	0090	1	NMLV2COMP module because it's only used for formatting
91	0091	1	SHOW LINKS commands for V2 nodes.
92	0092	1	
93	0093	1	V02-001 MKP0001 Kathy Perko 24-July-1981
94	0094	1	Delete NML call to map VMS line to DNA line name.
95	0095	1	--
96	0096	1	



NML\$SHOPRM  
V04-000

NML special volatile parameter handling routine 16-Sep-1984 00:33:36  
Declarations 14-Sep-1984 12:50:20

VAX-11 Bliss-32 V4.0-742  
[NML.SRC]NMLSHOPRM.B32;1

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(2)

```
: 155      0154 1      NML$ADDMSGPRM,  
: 156      0155 1      NML$LISNMLVER;  
: 157      0156 1      NML$GETNODNAM,  
: 158      0157 1      NML$NETQIO,  
: 159      0158 1      NML$ERROR_1;
```

NML  
V04

```

161 0159 1 GLOBAL ROUTINE NML$SHOPARAM (SEM_LIST, BUFDSC, MSGSIZE, DATDSC, DATPTR)=
162 0160 1
163 0161 1 ++
164 0162 1 FUNCTIONAL DESCRIPTION:
165 0163 1
166 0164 1 This routine is used to format byte, word, longword, and string NICE
167 0165 1 parameters for SHOW commands. It gets a longword or string parameter
168 0166 1 from the QIO buffer, and adds it to the NICE response message.
169 0167 1
170 0168 1 FORMAL PARAMETERS:
171 0169 1
172 0170 1 SEM_LIST Parameter semantic table entry address.
173 0171 1 BUFDSC Output message buffer descriptor address.
174 0172 1 MSGSIZE Address of current output message size.
175 0173 1 DATDSC QIO buffer descriptor address.
176 0174 1 DATPTR Current pointer into QIO data buffer.
177 0175 1
178 0176 1 ROUTINE VALUE:
179 0177 1 COMPLETION CODES:
180 0178 1
181 0179 1 Always returns success (NML$STS_SUC).
182 0180 1
183 0181 1 --
184 0182 1
185 0183 2 BEGIN
186 0184 2
187 0185 2 MAP
188 0186 2 SEM_LIST : REF BBLOCK;
189 0187 2
190 0188 2 LOCAL
191 0189 2 DATA_TYPE: BBLOCK [1], ! NICE parameter data type
192 0190 2 NICE_LEN, ! Length of parameter in NICE response message.
193 0191 2 CHECKR_STRING;
194 0192 2
195 0193 2
196 0194 2 Using the NICE data type field in the Parameter Semantic Table (PST),
197 0195 2 determine how long the parameter will be in the NICE response message.
198 0196 2
199 0197 2 CHECK_STRING = 0;
200 0198 2 DATA_TYPE = .SEM_LIST [PST$B_DATATYPE];
201 0199 2
202 0200 2 Check to see if the parameter is coded.
203 0201 2
204 0202 2 IF .DATA_TYPE [NMA$V_PTY_COD] THEN
205 0203 2 BEGIN
206 0204 2 IF .DATA_TYPE [NMA$V_PTY_CMU] THEN
207 0205 2 NML$ERROR_1 (NMA$C_STS_MPR) ! Signal NML error.
208 0206 2 ELSE
209 0207 2
210 0208 2 The parameter is a coded single field. Get the parameter's length
211 0209 2 from the low order 6 bits.
212 0210 2
213 0211 2 NICE_LEN = .DATA_TYPE [NMA$V_PTY_CLE];
214 0212 2 END
215 0213 2 ELSE
216 0214 2
217 0215 2 The parameter is not coded.

```

```

218 0216 2 !
219 0217 2 BEGIN
220 0218 2 IF .DATA_TYPE [NMA$V_PTY_ASC] OR ! NICE parameter type = string
221 0219 2 .DATA_TYPE [NMA$V_PTY_NLE] EQL 0 ! NICE parameter type = binary image
222 0220 2 THEN
223 0221 2 BEGIN
224 0222 2 NICE_LEN = ..DATPTR <0,16>;
225 0223 2 .DATPTR = ..DATPTR + 2;
226 0224 2 CHECK_STRING = 1;
227 0225 2 END
228 0226 2 ELSE
229 0227 2 NICE_LEN = .DATA_TYPE [NMA$V_PTY_NLE];
230 0228 2 END;
231 0229 2
232 0230 2 : If the ACP has a value for the parameter, add it to the NICE response
233 0231 2 message. The ACP does not have a value for the parameter if:
234 0232 2 - It's a string, and the length is zero.
235 0233 2 - It's a longword, and the value is -1.
236 0234 2 The ACP returns only longwords or strings.
237 0235 2
238 0236 2 IF (.CHECK_STRING AND .NICE_LEN NEQ 0) OR
239 0237 2 ((NOT .CHECK_STRING) AND (...DATPTR NEQ -1)) THEN
240 0238 2 NML$ADDMSGPRM ( .BUFDSC,
241 0239 2 .MSGSIZE,
242 0240 2 .SEM_LIST [PST$W_DATAID],
243 0241 2 .SEM_LIST [PST$B_DATATYPE],
244 0242 2 .NICE_LEN,
245 0243 2 ..DATPTR);
246 0244 2
247 0245 2 : Increment the pointer to the QIO P4 buffer to the next parameter
248 0246 2 returned by the ACP.
249 0247 2
250 0248 2
251 0249 2 IF .CHECK_STRING THEN
252 0250 2 .DATPTR = ..DATPTR + .NICE_LEN
253 0251 2 ELSE
254 0252 2 .DATPTR = ..DATPTR + 4;
255 0253 2
256 0254 2 RETURN NML$_STS_SUC
257 0255 2
258 0256 2 ! End of NML$SHOPARAM

```

```

.TITLE NML$SHOPRM NML special volatile parameter handl
        ing routine
.IDENT \V04-000\
.PSECT $PLITS,NOWRT,NOEXE,2
        0000100 0000 P.AAA: .LONG 256
        00000000 00004 .ADDRESS NML$_PRMBUFFER
.PSECT $OWNS,NOEXE,2
        0000 NML$_PRMBUFFER:
        .BLKB 256

```



```

NML$Q_PCMDSC= P.AAA
.EXTRN NML$GB_EVTSRCTYP
.EXTRN NML$GQ_EVTSRCDSC
.EXTRN NML$GW_EVTCLASS
.EXTRN NML$GB_EVTMSKTYP
.EXTRN NML$GQ_EVTMSKDSC
.EXTRN NML$GW_EVTSNKADR
.EXTRN NML$GW_ACP_CHAN
.EXTRN NML$GL_LOGMASK, NML$GQ_ENTSTRDSC
.EXTRN NML$AB_QIOBUFFER
.EXTRN NML$GQ_QIOBFDSC
.EXTRN NML$AB_EXEBUFFER
.EXTRN NML$GL_EXEDATPTR
.EXTRN NML$GQ_EXEDATDSC
.EXTRN NML$GQ_EXEBFDSC
.EXTRN NML$AB_RCVBUFFER
.EXTRN NML$GQ_RCVBFDSC
.EXTRN NML$AB_SNDBUFFER
.EXTRN NML$GQ_SNDBFDSC
.EXTRN NML$GL_RCVDATLEN
.EXTRN NML$AB_CPTABLE, NML$AB_MSGBLOCK
.EXTRN NML$AB_ENTITY_ID
.EXTRN NML$AB_QUALIFIER_ID
.EXTRN NML$AB_ENTITYDATA
.EXTRN NML$AB_NML_NMV, NML$AB_PRMSEM
.EXTRN NML$AB_RECBUF, NML$AL_ENTINFTAB
.EXTRN NML$AL_PERMINFTAB
.EXTRN NML$AW_PRM_DES, NML$GB_CMD_VER
.EXTRN NML$GB_ENTITY_CODE
.EXTRN NML$GB_ENTITY_FORMAT
.EXTRN NML$GL_QUALIFIER_PST
.EXTRN NML$GB_QUALIFIER_FORMAT
.EXTRN NML$GB_FUNCTION
.EXTRN NML$GB_INFO, NML$GB_OPTIONS
.EXTRN NML$GL_PRCODE, NML$GL_PRS_FLGS
.EXTRN NML$GL_NML_ENTITY
.EXTRN NML$GQ_NETNAMDSC
.EXTRN NML$GQ_RECBFDC
.EXTRN NML$GW_PRMDESCNT
.EXTRN NML$GB_NCP_VERSION
.EXTRN NML$GW_VOL_EXEC_ADDR
.EXTRN NML$ADDMSGCOU, NML$ADDMSGPRM
.EXTRN NML$LISNMLVER, NML$GETNODNAM
.EXTRN NML$NETQIO, NML$ERROR_1

```

.PSECT \$CODE\$,NOWRT,2

			003C 00000	.ENTRY	NML\$SHOPPARAM, Save R2,R3,R4,R5	: 0159
			55 D4 00002	CLRL	CHECK STRING	: 0197
	53	04	AC D0 00004	MOVL	SEM LIST, R3	: 0198
	52	03	A3 90 00008	MOVB	3(R3), DATA_TYPE	: 0202
			17 18 0000C	BGEQ	2\$	: 0204
	OC		06 E1 0000E	BBC	#6, DATA_TYPE, 1\$	: 0205
			05 CE 00012	MNEGL	#5, -(SP)	: 0211
			01 FB 00015	CALLS	#1, NML\$ERROR_1	: 0211
			25 11 0001C	BRB	5\$	: 0211
54			00 EF 0C01E 1\$:	EXTZV	#0, #6, DATA_TYPE, NICE_LEN	: 0211
	52					

			1E 11 00023	BRB	5\$		: 0202
05	52		06 E0 00025	2\$: BBS	#6, DATA_TYPE, 3\$		: 0218
	0F		52 93 00029	BITB	DATA_TYPE, #15		: 0219
			10 12 0002C	BNEQ	4\$		
	50	14	AC D0 0002E	3\$: MOVL	DATPTR, R0		: 0222
	54	00	B0 3C 00032	MOVZWL	@0(R0), NICE_LEN		
	60		02 C0 00036	ADDL2	#2, (R0)		: 0223
	55		01 D0 00039	MOVL	#1, CHECK_STRING		: 0224
			05 11 0003C	BRB	5\$		: 0218
54	52		00 EF 0003E	4\$: EXTZV	#0, #4, DATA_TYPE, NICE_LEN		: 0227
	07		55 E9 00043	5\$: BLBC	CHECK_STRING, 6\$		: 0236
			54 D5 00046	TSTL	NICE_LEN		
			10 12 00048	BNEQ	7\$		
	27		55 E8 0004A	BLBS	CHECK_STRING, 9\$		: 0237
	50	14	BC D0 0004D	6\$: MOVL	@DATPTR, R0		
	FFFFFFF		60 D1 00051	C MPL	(R0), #-1		
			17 13 00058	BEQL	8\$		
		14	BC DD 0005A	7\$: PUSHL	@DATPTR		: 0243
			54 DD 0005D	PUSHL	NICE_LEN		: 0242
	7E	03	A3 9A 0005F	MOVZBL	3(R3), -(SP)		: 0241
	7E		63 3C 00063	MOVZWL	(R3), -(SP)		: 0240
	7E	08	AC 7D 0C066	MOVQ	BUFDSC, -(SP)		: 0238
	00000000G		06 FB 0006A	CALLS	#6, NML\$ADDMSGPRM		
	06		55 E9 00071	8\$: BLBC	CHECK_STRING, 10\$		: 0250
	14		54 C0 00074	9\$: ADDL2	NICE_LEN, @DATPTR		
			04 11 00078	BRB	11\$		
	14		04 C0 0007A	10\$: ADDL2	#4, @DATPTR		: 0252
	50		01 D0 0007E	11\$: MOVL	#1, R0		: 0254
			04 00081	RET			: 0256

; Routine Size: 130 bytes, Routine Base: \$CODE\$ + 0000

```

: 260 0257 1 %SBTTL 'NML$SHONMLVER Get NML version number'
: 261 0258 1 GLOBAL ROUTINE NML$SHONMLVER (SEM_TABLE, BUFDSC, MSGSIZE, DUMDSC, DATPTR) =
: 262 0259 1
: 263 0260 1 ++
: 264 0261 1 FUNCTIONAL DESCRIPTION:
: 265 0262 1
: 266 0263 1 This routine moves the network management version number into
: 267 0264 1 the output message as a coded multiple parameter.
: 268 0265 1
: 269 0266 1 FORMAL PARAMETERS:
: 270 0267 1
: 271 0268 1 SEM_TABLE Parameter semantic table entry address.
: 272 0269 1 BUFDSC Output message buffer descriptor.
: 273 0270 1 MSGSIZE Address of current output message size.
: 274 0271 1 DUMDSC Not used.
: 275 0272 1 DATPTR Current pointer into QIO data buffer.
: 276 0273 1
: 277 0274 1 IMPLICIT INPUTS:
: 278 0275 1
: 279 0276 1 NONE
: 280 0277 1
: 281 0278 1 IMPLICIT OUTPUTS:
: 282 0279 1
: 283 0280 1 Parameter is added to output message buffer.
: 284 0281 1
: 285 0282 1 ROUTINE VALUE:
: 286 0283 1 COMPLETION CODES:
: 287 0284 1
: 288 0285 1 Always returns success (NML$_STS_SUC).
: 289 0286 1
: 290 0287 1 SIDE EFFECTS:
: 291 0288 1
: 292 0289 1 NONE
: 293 0290 1
: 294 0291 1 --
: 295 0292 1 BEGIN
: 296 0293 2
: 297 0294 2 NML$LISNMLVER (.SEM_TABLE, .BUFDSC, .MSGSIZE, .DUMDSC);
: 298 0295 2
: 299 0296 2 RETURN NML$_STS_SUC
: 300 0297 2
: 301 0298 2
: 302 0299 1 END; ! End of NML$SHONMLVER

```

```

00000000G 7E 0C AC 7D 0000 .ENTRY NML$SHONMLVER, Save nothing ; 0258
7E 04 AC 7D 0002 MOVQ MSGSIZE, -(SP) ; 0295
00000000G 00 04 FB 0000A MOVQ SEM_TABLE, -(SP)
50 01 D0 00011 CALLS #4, NML$LISNMLVER
04 00014 MOVL #1, R0 ; 0297
RET ; 0299

```

; Routine Size: 21 bytes, Routine Base: \$CODE\$ + 0082

NML\$SHOPRM  
V04-000

NML special volatile parameter handling routine <sup>1</sup>16-Sep-1984 00:33:36  
NML\$SHONMLVER Get NML version number 14-Sep-1984 12:50:20

VAX-11 Bliss-32 V4.0-742  
[NML.SRC]NML\$SHOPRM.B32;1

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(4)

NM  
VO

```

: 304 0300 1 %SBTTL 'NML$SHOVERSION Get coded multiple version number'
: 305 0301 1 GLOBAL ROUTINE NML$SHOVERSION (SEM_LIST, BUFDSC, MSGSIZE, DUMDSC, DATPTR)=
: 306 0302 1
: 307 0303 1 !++
: 308 0304 1 ! FUNCTIONAL DESCRIPTION:
: 309 0305 1
: 310 0306 1     This parameter moves network facility version numbers into the
: 311 0307 1     output message buffer as a coded multiple field. Version numbers
: 312 0308 1     are a string of three bytes.
: 313 0309 1
: 314 0310 1 ! FORMAL PARAMETERS:
: 315 0311 1
: 316 0312 1     SEM_LIST      Parameter semantic table entry address.
: 317 0313 1     BUFDSC        Output message buffer descriptor address.
: 318 0314 1     MSGSIZE     Address of current output message size.
: 319 0315 1     DUMDSC        Not used.
: 320 0316 1
: 321 0317 1 ! IMPLICIT INPUTS:
: 322 0318 1
: 323 0319 1     NONE
: 324 0320 1
: 325 0321 1 ! IMPLICIT OUTPUTS:
: 326 0322 1
: 327 0323 1     The output message buffer contains the coded multiple version number.
: 328 0324 1
: 329 0325 1 ! ROUTINE VALUE:
: 330 0326 1 ! COMPLETION CODES:
: 331 0327 1
: 332 0328 1     Always returns success (NML$_STS_SUC).
: 333 0329 1
: 334 0330 1 ! SIDE EFFECTS:
: 335 0331 1
: 336 0332 1     NONE
: 337 0333 1
: 338 0334 1 --
: 339 0335 1
: 340 0336 2     BEGIN
: 341 0337 2
: 342 0338 2     MAP
: 343 0339 2     SEM_LIST : REF BLOCK [, BYTE];
: 344 0340 2
: 345 0341 2     LOCAL
: 346 0342 2     BUFFER : VECTOR [6, BYTE],
: 347 0343 2     LEN,
: 348 0344 2     PTR;
: 349 0345 2
: 350 0346 2 ! Read version parameter.
: 351 0347 2
: 352 0348 2     LEN = (.NML$GL_EXEDATPTR)<0,16>;
: 353 0349 2
: 354 0350 2     IF .LEN NEQU 3           ! Length must be 3 bytes
: 355 0351 2     THEN
: 356 0352 2     RETURN NML$_STS_MPR;
: 357 0353 2
: 358 0354 2     NML$GL_EXEDATPTR = .NML$GL_EXEDATPTR + 2;
: 359 0355 2
: 360 0356 2 ! Add version parameter to message.

```

```

: 361      0357 2 !
: 362      0358 2 !
: 363      0359 2 !
: 364      0360 2 !
: 365      0361 2 !
: 366      0362 2 !
: 367      0363 2 !
: 368      0364 2 !
: 369      0365 2 !
: 370      0366 2 !
: 371      0367 2 !
: 372      0368 2 !
: 373      0369 2 !
: 374      0370 2 !
: 375      0371 2 !
: 376      0372 2 !
: 377      0373 2 !
: 378      0374 2 !
: 379      0375 1 !

PTR = CH$PTR (BUFFER);      ! Point to output buffer

INCR I FROM 0 TO 2 DO
  BEGIN
    CH$WCHAR_A (1, PTR);
    CH$WCHAR_A (CH$RCHAR_A (NML$GL_EXEDATPTR) - '0' , PTR);
  END;

NML$ADDMSGPRM (
  .BUFDC,
  .MSGSIZE,
  .SEM_LIST [PST$W_DATAID],
  .SEM_LIST [PST$B_DATATYPE] OR 3,
  6,
  BUFFER);

RETURN NML$_STS_SUC

END;      ! End of NML$SHOVERSION

```

			001C 00000	.ENTRY	NML\$SHOVERSION, Save R2,R3,R4	0301
	54	00000000G	00 9E 00002	MOVAB	NML\$GL_EXEDATPTR, R4	
	5E		08 C2 00009	SUBL2	#8, SP	
	50		64 D0 0000C	MOVL	NML\$GL_EXEDATPTR, R0	0348
	50		60 3C 0000F	MOVZWL	(R0), [EN	
	03		50 D1 00012	CMPL	LEN, #3	0350
			04 13 00015	BEQL	1\$	
	50		0A CE 00017	MNEGL	#10, R0	0352
			04 0001A	RET		
	64		02 C0 0001B 1\$:	ADDL2	#2, NML\$GL_EXEDATPTR	0354
	50		6E 9E 0001E	MOVAB	BUFFER, PTR	0358
			52 D4 00021	CLRL	I	0360
	80		01 90 00023 2\$:	MOVB	#1, (PTR)+	0362
	53		64 D0 00026	MOVL	NML\$GL_EXEDATPTR, R3	0363
	51		63 9A 00029	MOVZBL	(R3), R1	
			64 D6 0002C	INCL	NML\$GL_EXEDATPTR	
80	51		30 83 0002E	SUBB3	#48, RT, (PTR)+	
ED	52		02 F3 00032	AOBLEQ	#2, I, 2\$	0360
			5E DD 00036	PUSHL	SP	0366
			06 DD 00038	PUSHL	#6	
	50	04	AC D0 0003A	MOVL	SEM_LIST, R0	0369
	51	03	A0 9A 0003E	MOVZBL	3(R0), R1	
7E	51		03 C9 00042	RISL3	#3, R1, -(SP)	
	7E		60 3C 00046	MOVZWL	(R0), -(SP)	0368
	7E	08	AC 7D 00049	MOVQ	BUFDC, -(SP)	0366
	00000000G	00	06 FB 0004D	CALLS	#6, NML\$ADDMSGPRM	
		50	01 D0 00054	MOVL	#1, R0	0373
			04 00057	RET		0375

: Routine Size: 88 bytes, Routine Base: \$CODE\$ + 0097

```

381 0376 1 %SBTTL 'NML$SHOREMSTA Get remote node state'
382 0377 1 GLOBAL ROUTINE NML$SHOREMSTA (SEM_LIST, BUFDSC, MSGSIZE, DATDSC, DATPTR)=
383 0378 1
384 0379 1 :++
385 0380 1 : FUNCTIONAL DESCRIPTION:
386 0381 1 :
387 0382 1 :     This routine maps remote node status from the internal NETACP
388 0383 1 :     bit value to the network management state value. The following
389 0384 1 :     states are possible:
390 0385 1 :
391 0386 1 :         reachable (NETACP value = 1, NML value = NMASC_STATE_REA)
392 0387 1 :         unreachable (NETACP value = 0, NML value = NMASC_STATE_UNR)
393 0388 1 :
394 0389 1 : FORMAL PARAMETERS:
395 0390 1 :
396 0391 1 :     SEM_LIST      Parameter semantic table entry address.
397 0392 1 :     BUFDSC       Output message buffer descriptor address.
398 0393 1 :     MSGSIZE      Address of current output message size.
399 0394 1 :     DATDSC       QIO buffer descriptor address.
400 0395 1 :     DATPTR       Current pointer into QIO data buffer.
401 0396 1 :
402 0397 1 : ROUTINE VALUE:
403 0398 1 : COMPLETION CODES:
404 0399 1 :
405 0400 1 :     If NETACP did not know the state of the remote node, returns
406 0401 1 :     NML$_STS_PTY.
407 0402 1 :
408 0403 1 :
409 0404 1 : --
410 0405 1 :
411 0406 2 BEGIN
412 0407 2
413 0408 2 MAP
414 0409 2     SEM_LIST : REF BLOCK [, BYTE];
415 0410 2
416 0411 2 LOCAL
417 0412 2     STATE : BYTE;
418 0413 2
419 0414 2 IF .(..DATPTR) EQLU -1 THEN
420 0415 3     BEGIN
421 0416 3         .DATPTR = ..DATPTR + 4;
422 0417 3         RETURN NML$_STS_PTY;
423 0418 2     END;
424 0419 2 :
425 0420 2 : Map bit setting to correct network management value.
426 0421 2 :
427 0422 3 STATE = ( IF .(..DATPTR)<0,8> THEN
428 0423 3     NMASC_STATE_REA ! Reachable
429 0424 3     ELSE
430 0425 3     NMASC_STATE_UNR);      ! Unreachable
431 0426 2 :
432 0427 2 : Add state parameter to message.
433 0428 2 :
434 0429 2 NML$ADDMSGPRM (.BUFDSC,
435 0430 2     .MSGSIZE,
436 0431 2     .SEM_LIST [PST$W_DATAID],
437 0432 2     .SEM_LIST [PST$B_DATATYPE],

```

```

: 438      0433      2          1
: 439      0434      2          STATE);
: 440      0435      2
: 441      0436      2      .DATPTR = ..DATPTR + 4;
: 442      0437      2
: 443      0438      2      RETURN NML$_STS_SUC
: 444      0439      2
: 445      0440      1      END;
                                ! End of NML$SHOREMSTA

```

			0000	00000	.ENTRY	NML\$SHOREMSTA, Save nothing	: 0377
	5E		04	C2 00002	SUBL2	#4, SP	
	50	14	BC	D0 00005	MOVL	@DATPTR, R0	: 0414
FFFFFFFF	8F		60	D1 00009	CMPL	(R0), #-1	
			08	12 00010	BNEQ	1\$	
	14		04	C0 00012	ADDL2	#4, @DATPTR	: 0416
	50		0C	CE 00016	MNEGL	#12, R0	: 0417
			04	00019	RET		
	50	14	BC	D0 0001A	MOVL	@DATPTR, R0	: 0422
	05		60	E9 0001E	BLBC	(R0), 2\$	
	50		04	D0 00021	MOVL	#4, R0	
			03	11 00024	BRB	3\$	
	50		05	DC 00026	MOVL	#5, R0	
	6E		50	90 00029	MOVB	R0, STAT	
			5E	DD 0002C	PUSHL	SP	: 0429
			01	DD 0002E	PUSHL	#1	
	50	04	AC	D0 00030	MOVL	SEM LIST, R0	: 0432
	7E	03	A0	9A 00034	MOVZBL	3(R0), -(SP)	
	7E		60	3C 00038	MOVZWL	(R0), -(SP)	: 0431
	7E	08	AC	7D 0003B	MOVQ	BUFDSC, -(SP)	: 0429
00000000G	00		06	FB 0003F	CALLS	#6, NML\$ADDMSGPRM	
14	BC		04	C0 00046	ADDL2	#4, @DATPTR	: 0436
	50		01	D0 0004A	MOVL	#1, R0	: 0438
			04	0004D	RET		: 0440

; Routine Size: 78 bytes, Routine Base: \$CODE\$ + 00EF



```

447 0441 1 %SBTTL 'NML$SHONODEID Get adjacent node id'
448 0442 1 GLOBAL ROUTINE NML$SHONODEID (SEM_LIST, BUFDSC, MSGSIZE, DATDSC, DATPTR)=
449 0443 1
450 0444 1  +-+
451 0445 1  FUNCTIONAL DESCRIPTION:
452 0446 1
453 0447 1      This routine adds the id of the remote node (NMASC_PCLI_ADJ) to
454 0448 1      which a line is connected to the output message buffer as a coded
455 0449 1      multiple field.
456 0450 1
457 0451 1  FORMAL PARAMETERS:
458 0452 1
459 0453 1      SEM_LIST      Parameter semantic table entry address.
460 0454 1      BUFDSC        Output message buffer descriptor address.
461 0455 1      MSGSIZE       Address of current output message size.
462 0456 1      DATDSC        QIO buffer descriptor address.
463 0457 1      DATPTR        Current pointer into QIO data buffer.
464 0458 1
465 0459 1
466 0460 1  ROUTINE VALUE:
467 0461 1  COMPLETION CODES:
468 0462 1
469 0463 1      Always returns success (NML$_SIS_SUC).
470 0464 1
471 0465 1  SIDE EFFECTS:
472 0466 1
473 0467 1      NONE
474 0468 1
475 0469 1  --
476 0470 1
477 0471 2  BEGIN
478 0472 2
479 0473 2  MAP
480 0474 2      sem_list : * 9LOCK [, BYTE];
481 0475 2
482 0476 2  LOCAL
483 0477 2      cm_count,          ! Coded multiple field count
484 0478 2      name_dsc: VECTOR [2], ! Descriptor of node name.
485 0479 2      name_buf: BBLOCK [6], ! Temporary buffer for node name.
486 0480 2      totlen,           ! Total length of field
487 0481 2      nodadr,
488 0482 2      ptr;
489 0483 2
490 0484 2
491 0485 2  ! Get node address from P4 buffer returned by NETACP and increment pointer
492 0486 2  ! to the next parameter in the buffer.
493 0487 2
494 0488 2  nodadr = ..datptr<0,32>;
495 0489 2  .datptr = ..datptr + 4;
496 0490 2
497 0491 2  ! If address is zero then don't return this parameter. If there is one,
498 0492 2  ! skip over the node name parameter before returning.
499 0493 2
500 0494 2  IF .nodadr EQLU -1 THEN
501 0495 2  BEGIN
502 0496 2      IF .sem_list [pst$l_nfbid] EQL nfb$c_aji_add OR
503 0497 2      .sem_list [pst$_nfbid] EQL nfb$c_ndi_nnd OR

```

```

504 0498 3      .sem_list [pst$l_nfbid] EQL nfb$c_ll_i_pnn THEN
505 0499 3      .datptr = ..datptr + ..(..datptr)<0,16> + 2;
506 0500 3      RETURN nml$sts_pty;
507 0501 2      END;
508 0502 2
509 0503 2      If the NCP I'm talking to is speaking NICE V3.0.0 or less, and the node
510 0504 2      is in the executor's area, clear the area number from the node number.
511 0505 2      The theory is that the Phase III system should see node's in the executor's
512 0506 2      area normally (for a Phase III system), but node's outside the executor's
513 0507 2      area shouldn't be represented as nodes in the executor's area. So those
514 0508 2      will just have funny addresses because the area number will not be properly
515 0509 2      formatted by the Phase III system.
516 0510 2
517 0511 2      IF CH$RCHAR (nml$gb_ncp_version) LEQ 3 THEN
518 0512 2      BEGIN
519 0513 2      MAP
520 0514 3      nodadr: BBLOCK;
521 0515 3
522 0516 3      IF .nml$gw_vol_exec_addr [nma$sv_area] EQL .nodadr [nma$sv_area] THEN
523 0517 3      nodadr [nma$sv_area] = 0;
524 0518 2      END;
525 0519 2
526 0520 2      ptr = nml$prmbuffer;
527 0521 2
528 0522 2      Add node address field.
529 0523 2
530 0524 2      CH$WCHAR A (2, ptr);
531 0525 2      ptr = CH$MOVE (2, nodadr, .ptr);
532 0526 2
533 0527 2      Get the maximum number of fields in the coded multiple (some parameters
534 0528 2      are returned as a node number and name, and some are returned as simply
535 0529 2      a node number.
536 0530 2
537 0531 2      cm_count = .sem_list [pst$b_datatype] AND NOT nma$m_pty_cmu;
538 0532 2
539 0533 2      If a node name is ever part of this parameter, add the node name field
540 0534 2      (provided NETACP returned one) to the NICE message.
541 0535 2
542 0536 2      IF .cm_count EQL 2 THEN
543 0537 3      BEGIN
544 0538 3      SELECTONEU .sem_list [pst$l_nfbid] OF
545 0539 3      SET
546 0540 3      [nfb$c_aji_add,          ! Circuit adjacent node address
547 0541 3      nfb$c_ndi_nnd,         ! Node next node to destination
548 0542 3      nfb$c_ll_i_pnn]:      ! Logical link partner node
549 0543 4      BEGIN
550 0544 4      name_dsc [0] = ..(..datptr)<0,16>;
551 0545 4      .datptr = ..datptr + 2;
552 0546 4      name_dsc [1] = ..datptr;
553 0547 4      .datptr = ..datptr + .name_dsc [0];
554 0548 3      END;
555 0549 3
556 0550 3      [OTHERWISE]:
557 0551 4      BEGIN
558 0552 4      name_dsc [0] = 6;
559 0553 4      name_dsc [1] = name_buf;
560 0554 4      nml$getnodnam (.nodadr, name_dsc, name_dsc [0]);

```



			03	00000000G	00	91	00051	3\$:	CMPB	NML\$GB_NCP_VERSION, #3	:	0511
					15	1A	00058		BGTRU	4\$	:	
50		52	06		0A	EF	0005A		EXTZV	#10, #6, NODADR, R0	:	0516
50	00000000G	00	06		02	ED	0005F		CMPZV	#2, #6, NML\$GW_VOL_EXEC_ADDR+1, R0	:	
					05	12	00068		BNEQ	4\$	:	
			52	FC00	8F	AA	0006A		BICW2	#64512, NODADR	:	0517
			53		68	9E	0006F	4\$:	MOVAB	NML\$T_PRMBUFFER, PTR	:	0520
			83		02	90	00072		MOVB	#2, (PTR)+	:	0524
			83		52	B0	00075		MOVW	NODADR, (PTR)+	:	0525
			56	04	AC	D0	00078		MOVL	SEM_LIST, R6	:	0531
57	03	A6	06		00	EF	0007C		EXTZV	#0, #6, 3(R6), CM_COUNT	:	
			02		57	D1	00082		CMPL	CM_COUNT, #2	:	0536
					5F	12	00085		BNEQ	9\$	:	
			50	0C	A6	D0	00087		MOVL	12(R6), R0	:	0538
	02010022		8F		50	D1	0008B		CMPL	R0, #33620002	:	0540
					12	13	00092		BEQL	5\$	:	
	08020043		8F		50	D1	00094		CMPL	R0, #134348867	:	
					09	13	0009B		BEQL	5\$	:	
	13010010		8F		50	D1	0009D		CMPL	R0, #318832656	:	
					12	12	000A4		BNEQ	6\$	:	
	08	AE	00		B1	3C	000A6	5\$:	MOVZWL	@0(R1), NAME_DSC	:	0544
					02	C0	000AB		ADDL2	#2, (R1)	:	0545
	0C	AE			61	D0	000AE		MOVL	(R1), NAME_DSC+4	:	0546
					61	C0	000B2		ADDL2	NAME_DSC, (R1)	:	0547
					17	11	000B6		BRB	7\$	:	0538
	08	AE			06	D0	000B8	6\$:	MOVL	#6, NAME_DSC	:	0552
	0C	AE			6E	9E	000BC		MOVAB	NAME_BUF, NAME_DSC+4	:	0553
					08	AE	9F	000C0	PUSHAB	NAME_DSC	:	0554
					0C	AE	9F	000C3	PUSHAB	NAME_DSC	:	
					52	DD	000C6		PUSHL	NODADR	:	
	00000000G		00		03	FB	000C8		CALLS	#3, NML\$GETNODNAM	:	
			50	08	AE	D0	000CF	7\$:	MOVL	NAME_DSC, R0	:	0561
					0E	13	000D3		BEQL	8\$	:	
			83	40	8F	90	000D5		MOVB	#64, (PTR)+	:	0564
			83		50	90	000D9		MOVB	R0, (PTR)+	:	0565
	63	0C	BE		50	28	000DC		MOVCL3	R0, @NAME_DSC+4, (PTR)	:	0566
					03	11	000E1		BRB	9\$	:	0561
			57		01	D0	000E3	8\$:	MOVL	#1, CM_COUNT	:	0570
			50		68	9E	000E6	9\$:	MOVAB	NML\$T_PRMBUFFER, R0	:	0573
	50		53		50	C3	000E9		SUBL3	R0, PTR, TOTLEN	:	
				0101	8F	BB	000ED		PUSHR	#*M<R0,R8>	:	0581
	7E		57	000000C0	8F	C9	000F1		BISL3	#192, CM_COUNT, -(SP)	:	0580
			7E		66	3C	000F9		MOVZWL	(R6), -(SP)	:	0579
			7E	08	AC	7D	000FC		MOVQ	BUF\$DSC, -(SP)	:	0577
	00000000G		00		06	FB	00100		CALLS	#6, NML\$ADDMSGPRM	:	
			50		01	D0	00107		MOVL	#1, R0	:	0584
					04	0010A			RET		:	0586

; Routine Size: 267 bytes, Routine Base: \$CODE\$ + 013D

```

594 0587 1 %SBTTL 'NML$SHOOBJPRV Get object privilege mask'
595 0588 1 GLOBAL ROUTINE NML$SHOOBJPRV (SEM_LIST, BUFDSC, MSGSIZE, DATDSC, DATPTR)=
596 0589 1
597 0590 1 !++
598 0591 1 FUNCTIONAL DESCRIPTION:
599 0592 1
600 0593 1 This routine gets the privilege list (NMA$C_PCOB_PRV) for a network
601 0594 1 object and adds it to the output message buffer.
602 0595 1
603 0596 1 Currently, only the first longword of the privilege mask can be
604 0597 1 set so that is all that is returned.
605 0598 1
606 0599 1 FORMAL PARAMETERS:
607 0600 1
608 0601 1 SEM_LIST Parameter semantic table entry address.
609 0602 1 BUFDSC Output message buffer descriptor address.
610 0603 1 MSGSIZE Address of current output message size.
611 0604 1 DATDSC QIO buffer descriptor address.
612 0605 1 DATPTR Current pointer into QIO data buffer.
613 0606 1
614 0607 1 IMPLICIT INPUTS:
615 0608 1
616 0609 1 NONE
617 0610 1
618 0611 1 IMPLICIT OUTPUTS:
619 0612 1
620 0613 1 The output message buffer contains the object privilege mask.
621 0614 1
622 0615 1 ROUTINE VALUE:
623 0616 1 COMPLETION CODES:
624 0617 1
625 0618 1 Always returns success (NML$_STS_SUC).
626 0619 1
627 0620 1 SIDE EFFECTS:
628 0621 1
629 0622 1 Destroys the contents of NML$T_PRMBUFFER.
630 0623 1
631 0624 1 --
632 0625 1
633 0626 2 BEGIN
634 0627 2
635 0628 2 MAP
636 0629 2 SEM_LIST : REF BLOCK [, BYTE];
637 0630 2
638 0631 2 IF ..(..DATPTR)<0,32> NEQU -1
639 0632 2 THEN
640 0633 2 NML$ADDMSGPRM ( .BUFDSC,
641 0634 2 .MSGSIZE,
642 0635 2 .SEM_LIST [PST$W_DATAID],
643 0636 2 .SEM_LIST [PST$B_DATATYPE] OR 4,
644 0637 2 4,
645 0638 2 ..DATPTR);
646 0639 2
647 0640 2 .DATPTR = ..DATPTR + 4;
648 0641 2
649 0642 2 RETURN NML$_STS_SUC
650 0643 2

```

: 651

0644 1 END;

! End of NML\$SHOOBJPRV

			0004 00000	.ENTRY	NML\$SHOOBJPRV, Save R2	: 0588
	52	14	AC D0 00002	MOVL	DATPTR, R2	: 0631
FFFFFFF	8F	00	B2 D1 00006	CMPL	@0(R2), #-1	:
			1E 13 0000E	BEQL	1\$	:
			62 DD 00010	PUSHL	(R2)	: 0638
			04 DD 00012	PUSHL	#4	: 0633
	50	04	AC D0 00014	MOVL	SEM LIST, R0	: 0636
7E	51	03	A0 9A 00018	MOVZBL	3(R0), R1	:
	51		04 C9 0001C	BISL3	#4, R1, -(SP)	:
	7E		60 3C 00020	MOVZWL	(R0), -(SP)	: 0635
	7E	08	AC 7D 00023	MOVQ	BUFDSC, -(SP)	: 0633
00000000G	90		06 FB 00027	CALLS	#6, NML\$ADDMSGPRM	:
	62		04 C0 0002E	ADDL2	#4, (R2)	: 0640
	50		01 D0 00031	MOVL	#1, R0	: 0642
			04 00034	RET		: 0644

: Routine Size: 53 bytes, Routine Base: \$CODE\$ + 0248

```

653 0645 1 %SBTTL 'NML$SHOSERVPASS Get service password'
654 0646 1 GLOBAL ROUTINE NML$SHOSERVPASS (SEM_LIST, BUFDSC, MSGSIZE, DATDSC, DATPTR)=
655 0647 1
656 0648 1 ++
657 0649 1 FUNCTIONAL DESCRIPTION:
658 0650 1
659 0651 1     This routine gets the service password (NMASC_PCNO_SPA) for the
660 0652 1     remote node and adds it to the output message as a hexadecimal
661 0653 1     number.
662 0654 1
663 0655 1 FORMAL PARAMETERS:
664 0656 1
665 0657 1     SEM_LIST      Parameter semantic table entry address.
666 0658 1     BUFDSC       Output message buffer descriptor address.
667 0659 1     MSGSIZE      Address of current output message size.
668 0660 1     DATDSC       QIO buffer descriptor address.
669 0661 1     DATPTR       Current pointer into QIO data buffer.
670 0662 1
671 0663 1 IMPLICIT INPUTS:
672 0664 1
673 0665 1     NONE
674 0666 1
675 0667 1 IMPLICIT OUTPUTS:
676 0668 1
677 0669 1     The output message buffer contains the hex service password.
678 0670 1
679 0671 1 ROUTINE VALUE:
680 0672 1 COMPLETION CODES:
681 0673 1
682 0674 1     Always returns success (NMLS_STS_SUC).
683 0675 1
684 0676 1 SIDE EFFECTS:
685 0677 1
686 0678 1     NONE
687 0679 1
688 0680 1 --
689 0681 1
690 0682 2 BEGIN
691 0683 2
692 0684 2 MAP
693 0685 2     SEM_LIST : REF BLOCK [, BYTE];
694 0686 2
695 0687 2 LOCAL
696 0688 2     PRMSIZE;
697 0689 2
698 0690 2     PRMSIZE = ..DATPTR<0,16>;
699 0691 2     .DATPTR = ..DATPTR + 2;
700 0692 2
701 0693 2 : If the length is zero then the parameter is not set.
702 0694 2
703 0695 2 IF .PRMSIZE EQLU 0
704 0696 2 THEN
705 0697 2     RETURN NMLS_STS_PTY;
706 0698 2
707 0699 2 : Add the parameter to the message.
708 0700 2
709 0701 2     NMLS$ADDMSGPRM (.BUFDSC,

```

```

: 710      0702      2          .MSGSIZE
: 711      0703      2          .SEM_LIST [PST$W_DATAID],
: 712      0704      2          .SEM_LIST [PST$B_DATATYPE] OR .PRMSIZE,
: 713      0705      2          .PRMSIZE,
: 714      0706      2          ..DATPTR);
: 715      0707      2
: 716      0708      2          .DATPTR = ..DATPTR + .PRMSIZE;
: 717      0709      2
: 718      0710      2          RETURN NML$_STS_SUC
: 719      0711      2
: 720      0712      1          END;
! End of NML$SHOSERVPASS

```

			0004	00000	.ENTRY	NML\$SHOSERVPASS, Save R2	: 0646
	50	14	BC	D0 00002	MOVL	@DATPTR, R0	: 0690
	52		60	3C 00006	MOVZWL	(R0), PRMSIZE	
	14	BC	02	C0 00009	ADDL2	#2, @DATPTR	: 0691
			52	D5 0000D	TSTL	PRMSIZE	: 0695
			04	12 0000F	BNEQ	1\$	
	50		0C	CE 00011	MNEGL	#12, R0	: 0697
				04 00014	RET		
		14	BC	DD 00015	1\$: PUSHL	@DATPTR	: 0706
			52	DD 00018	PUSHL	PRMSIZE	: 0705
	50	04	AC	D0 0001A	MOVL	SEM_LIST, R0	: 0704
	51	03	A0	9A 0001E	MOVZBL	3(R0), R1	
7E	51		52	C9 00022	BISL3	PRMSIZE, R1, -(SP)	
	7E		60	3C 00026	MOVZWL	(R0), -(SP)	: 0703
	7E	08	AC	7D 00029	MOVQ	BUFD\$C, -(SP)	: 0701
00000000G	00		06	FB 0002D	CALLS	#6, NML\$ADDMSGPRM	
14	BC		52	C0 00034	ADDL2	PRMSIZE, @DATPTR	: 0708
	50		01	D0 00038	MOVL	#1, R0	: 0710
			04	0003B	RET		: 0712

: Routine Size: 60 bytes, Routine Base: \$CODE\$ + 027D



```

: 722 0713 1 %SBTTL 'NML$SHOLINEID Get line id'
: 723 0714 1 GLOBAL ROUTINE NML$SHOLINEID (SEM_LIST, BUFDSC, MSGSIZE, DATDSC, DATPTR)=
: 724 0715 1
: 725 0716 1
: 726 0717 1 ++
: 727 0718 1 FUNCTIONAL DESCRIPTION:
: 728 0719 1 This routine reads the line id string and converts it from
: 729 0720 1 VMS format to DNA format and then adds it to the output message.
: 730 0721 1
: 731 0722 1 FORMAL PARAMETERS:
: 732 0723 1
: 733 0724 1 SEM_LIST Parameter semantic table entry address.
: 734 0725 1 BUFDSC Output message buffer descriptor address.
: 735 0726 1 MSGSIZE Address of current output message size.
: 736 0727 1 DATDSC QIO buffer descriptor address.
: 737 0728 1 DATPTR Current pointer into QIO data buffer.
: 738 0729 1
: 739 0730 1 IMPLICIT INPUTS:
: 740 0731 1
: 741 0732 1 NONE
: 742 0733 1
: 743 0734 1 IMPLICIT OUTPUTS:
: 744 0735 1
: 745 0736 1 The output message contains the DNA line id.
: 746 0737 1
: 747 0738 1 ROUTINE VALUE:
: 748 0739 1 COMPLETION CODES:
: 749 0740 1
: 750 0741 1 Always returns success (NML$STS_SUC).
: 751 0742 1
: 752 0743 1 SIDE EFFECTS:
: 753 0744 1
: 754 0745 1 NONE
: 755 0746 1
: 756 0747 1 --
: 757 0748 1
: 758 0749 2 BEGIN
: 759 0750 2
: 760 0751 2 MAP
: 761 0752 2 SEM_LIST : REF BLOCK [, BYTE];
: 762 0753 2
: 763 0754 2 LOCAL
: 764 0755 2 PRMSIZE;
: 765 0756 2
: 766 0757 2 PRMSIZE = ..DATPTR<0,16>;
: 767 0758 2 .DATPTR = ..DATPTR + 2;
: 768 0759 2
: 769 0760 2 If the length is zero then the parameter is not set.
: 770 0761 2
: 771 0762 2 IF .PRMSIZE EQLU 0
: 772 0763 2 THEN
: 773 0764 2 RETURN NML$STS_PTY;
: 774 0765 2
: 775 0766 2 Add the parameter to the message.
: 776 0767 2
: 777 0768 2 NML$ADDMSGPRM ( .BUFDSC,
: 778 0769 2 .MSGSIZE,

```

```

: 779      0770      2      .SEM_LIST [PST$W_DATAID],
: 780      0771      2      .SEM_LIST [PST$B_DATATYPE],
: 781      0772      2      .PRMSIZE,
: 782      0773      2      ..DATPTR);
: 783      0774      2
: 784      0775      2      .DATPTR = ..DATPTR + .PRMSIZE;
: 785      0776      2
: 786      0777      2      RETURN NML$_STS_SUC
: 787      0778      2
: 788      0779      1      END;
                                ! End of NML$SHOLINEID

```

```

                                0004 00000      .ENTRY NML$SHOLINEID, Save R2      : 0714
                                50      14      BC D0 00002      MOVL @DATPTR, R0      : 0757
                                52      60 3C 00006      MOVZWL (R0), PRMSIZE
                                14 BC 02 C0 00009      ADDL2 #2, @DATPTR      : 0758
                                52 D5 0000D      TSTL PRMSIZE      : 0762
                                04 12 0000F      BNEQ 1$
                                50      0C CE 00011      MNEGL #12, R0      : 0764
                                04 00014      RET
                                14 BC DD 00015 1$:      PUSHL @DATPTR      : 0773
                                52 DD 00018      PUSHL PRMSIZE      : 0772
                                50      04 AC D0 0001A      MOVL SEM_LIST, R0      : 0771
                                7E      03 A0 9A 0001E      MOVZBL 3(R0), -(SP)
                                7E      60 3C 00022      MOVZWL (R0), -(SP)      : 0770
                                7E      08 AC 7D 00025      MOVQ BUFD$C, -(SP)      : 0768
                                00000000G 00      06 FB 00029      CALLS #6, NML$ADDMSGPRM
                                14 BC 52 C0 00030      ADDL2 PRMSIZE, @DATPTR      : 0775
                                50      01 D0 00034      MOVL #1, R0      : 0777
                                04 00037      RET      : 0779

```

; Routine Size: 56 bytes, Routine Base: \$CODE\$ + 02B9

```

: 790 0780 1 %SBTTL 'NML$SKIPLONG Skip longword in QIO P4 buffer'
: 791 0781 1 GLOBAL ROUTINE NML$SKIPLONG (SEM_LIST, BUFDESC, MSGSIZE, DATDSC, DATPTR)=
: 792 0782 1
: 793 0783 1
: 794 0784 1 ++
: 795 0785 1 FUNCTIONAL DESCRIPTION:
: 796 0786 1 This routine skips (advances the pointer past) a byte, word, or
: 797 0787 1 longword parameter in the QIO P4 buffer. Note that the ACP always
: 798 0788 1 returns these parameters in a longword.
: 799 0789 1
: 800 0790 1 FORMAL PARAMETERS:
: 801 0791 1
: 802 0792 1 SEM_LIST Parameter semantic table entry address.
: 803 0793 1 BUFDESC Output message buffer descriptor address.
: 804 0794 1 MSGSIZE Address of current output message size.
: 805 0795 1 DATDSC QIO buffer descriptor address.
: 806 0796 1 DATPTR Current pointer into QIO data buffer.
: 807 0797 1
: 808 0798 1 IMPLICIT INPUTS:
: 809 0799 1
: 810 0800 1 NONE
: 811 0801 1
: 812 0802 1 IMPLICIT OUTPUTS:
: 813 0803 1
: 814 0804 1 NONE
: 815 0805 1
: 816 0806 1 ROUTINE VALUE:
: 817 0807 1 COMPLETION CODES:
: 818 0808 1
: 819 0809 1 Always returns success (NML$_STS_SUC).
: 820 0810 1
: 821 0811 1 SIDE EFFECTS:
: 822 0812 1
: 823 0813 1 NONE
: 824 0814 1
: 825 0815 1 --
: 826 0816 1
: 827 0817 2 BEGIN
: 828 0818 2
: 829 0819 2 .DATPTR = ..DATPTR + 4;
: 830 0820 2
: 831 0821 2 RETURN NML$_STS_SUC
: 832 0822 2
: 833 0823 1 END; ! End of NML$SKIPLONG

```

```

          14 BC          0000 00000          .ENTRY NML$SKIPLONG, Save nothing
          50          04 C0 00002          ADDL2 #4, @DATPTR
          01 D0 00006          MOVL #1, R0
          04 00009          RET

```

```

: 0781
: 0819
: 0821
: 0823

```

: Routine Size: 10 bytes, Routine Base: \$CODE\$ + 02F1

```

: 835 0824 1 %SBTTL 'NML$SKIPSTRING Skip string parameter'
: 836 0825 1 GLOBAL ROUTINE NML$SKIPSTRING (SEM_LIST, BUFDSC, MSGSIZE, DATDSC, DATPTR)=
: 837 0826 1
: 838 0827 1 :++
: 839 0828 1 FUNCTIONAL DESCRIPTION:
: 840 0829 1
: 841 0830 1 This routine skips (advances the pointer past) a string parameter
: 842 0831 1 in the QIO buffer.
: 843 0832 1
: 844 0833 1 FORMAL PARAMETERS:
: 845 0834 1
: 846 0835 1 SEM_LIST Parameter semantic table entry address.
: 847 0836 1 BUFDSC Output message buffer descriptor address.
: 848 0837 1 MSGSIZE Address of current output message size.
: 849 0838 1 DATDSC QIO buffer descriptor address.
: 850 0839 1 DATPTR Current pointer into QIO data buffer.
: 851 0840 1
: 852 0841 1 IMPLICIT INPUTS:
: 853 0842 1
: 854 0843 1 NONE
: 855 0844 1
: 856 0845 1 IMPLICIT OUTPUTS:
: 857 0846 1
: 858 0847 1 NONE
: 859 0848 1
: 860 0849 1 ROUTINE VALUE:
: 861 0850 1 COMPLETION CODES:
: 862 0851 1
: 863 0852 1 Always returns success (NML$_STS_SUC).
: 864 0853 1
: 865 0854 1 SIDE EFFECTS:
: 866 0855 1
: 867 0856 1 NONE
: 868 0857 1
: 869 0858 1 --
: 870 0859 1
: 871 0860 2 BEGIN
: 872 0861 2
: 873 0862 2 LOCAL
: 874 0863 2 LEN;
: 875 0864 2
: 876 0865 2 LEN = ..(..DATPTR)<0,16>;
: 877 0866 2 .DATPTR = ..DATPTR + 2;
: 878 0867 2 .DATPTR = ..DATPTR + .LEN;
: 879 0868 2
: 880 0869 2 RETURN NML$_STS_SUC
: 881 0870 2
: 882 0871 1 END; ! End of NML$SKIPSTRING

```

			0000 0000	.ENTRY NML\$SKIPSTRING, Save nothing	: 0825
	50	14	BC D0 00002	MOVL @DATPTR, R0	: 0865
	50		60 3C 00006	MOVZWL (R0), LEN	:
14	BC		02 C0 00009	ADDL2 #2, @DATPTR	: 0866

NMLSSHOPRM  
V04-000

NML special volatile parameter handling routine M 2  
NML\$SKIPSTRING Skip string parameter 16-Sep-1984 00:33:36  
14-Sep-1984 12:50:20

VAX-11 Bliss-32 V4.0-742  
[NML.SRC]NMLSSHOPRM.B32;1

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NM  
V0

14	BC	50	C0	0000D
	50	01	D0	00011
			04	00014

ADDL2	LEN, @DATPTR
MOVL	#1, R0
RET	

: 0867  
: 0869  
: 0871

; Routine Size: 21 bytes, Routine Base: \$CODE\$ + 02FB

.....

```

884 0872 1 %SBTTL 'NML$SHOEXEPARAM Show executor parameter'
885 0873 1 GLOBAL ROUTINE NML$SHOEXEPARAM (SEM_LIST, BUFDSC, MSGSIZE, DATDSC, DATPTR)=
886 0874 1
887 0875 1 |++
888 0876 1 | FUNCTIONAL DESCRIPTION:
889 0877 1 |
890 0878 1 |     This routine adds a parameter from the executor data buffer to the
891 0879 1 |     output message.
892 0880 1 |
893 0881 1 | FORMAL PARAMETERS:
894 0882 1 |
895 0883 1 |     SEM_LIST      Parameter semantic table entry address.
896 0884 1 |     BUFDSC        Output message buffer descriptor address.
897 0885 1 |     MSGSIZE       Address of current output message size.
898 0886 1 |     DATDSC        QIO buffer descriptor address.
899 0887 1 |     DATPTR        Current pointer into QIO data buffer.
900 0888 1 |
901 0889 1 | ROUTINE VALUE:
902 0890 1 | COMPLETION CODES:
903 0891 1 |
904 0892 1 |     Always returns success (NML$_STS_SUC).
905 0893 1 |
906 0894 1 | --
907 0895 1 |
908 0896 2 BEGIN
909 0897 2
910 0898 2 MAP
911 0899 2     SEM_LIST: REF BBLOCK;
912 0900 2
913 0901 2 LOCAL
914 0902 2     SUBRTN;
915 0903 2
916 0904 2 SELECTONEU .SEM_LIST [PST$W_DATAID] OF
917 0905 2
918 0906 2     SET
919 0907 2     [NMASC_PCNO_SAD]:  SUBRTN = NML$SHORANGE;
920 0908 2     [NMASC_PCNO_ALI]:  SUBRTN = NML$SHONODEID;
921 0909 2     [OTHERWISE]:      SUBRTN = NML$SHOPARAM;
922 0910 2     TES;
923 0911 2 |
924 0912 2 | Call the show parameter routine using the executor data descriptor.
925 0913 2 |
926 0914 2 | (.SUBRTN) (.SEM_LIST,
927 0915 2 |     .BUFDSC,
928 0916 2 |     .MSGSIZE,
929 0917 2 |     NML$GO_EXEDATDSC,
930 0918 2 |     NML$GL_EXEDATPTR);
931 0919 2 |
932 0920 2 RETURN NML$_STS_SUC
933 0921 2
934 0922 1 END;                                ! End of NML$SHOEXEPARAM

```



```

936 0923 1 %SBTTL 'NML$SHORANGE Show range parameter'
937 0924 1 GLOBAL ROUTINE NML$SHORANGE (SEM_LIST, BUFDESC, MSGSIZE, DATDESC, DATPTR) =
938 0925 1
939 0926 1 !++
940 0927 1 FUNCTIONAL DESCRIPTION:
941 0928 1
942 0929 1 FORMAL PARAMETERS:
943 0930 1
944 0931 1 SEM_LIST Parameter semantic table entry address.
945 0932 1 BUFDESC Output message buffer descriptor address.
946 0933 1 MSGSIZE Address of current output message size.
947 0934 1 DATDESC QIO buffer descriptor address.
948 0935 1 DATPTR Current pointer into QIO data buffer.
949 0936 1
950 0937 1 IMPLICIT OUTPUTS:
951 0938 1
952 0939 1 ROUTINE VALUE:
953 0940 1 COMPLETION CODES:
954 0941 1
955 0942 1 Always returns success (NML$_STS_SUC).
956 0943 1
957 0944 1 --
958 0945 1
959 0946 2 BEGIN
960 0947 2
961 0948 2 MAP
962 0949 2 SEM_LIST : REF BBLOCK;
963 0950 2
964 0951 2 LOCAL
965 0952 2 CM_COUNT,
966 0953 2 RANGE_BEGIN: WORD,
967 0954 2 RANGE_END: WORD,
968 0955 2 LENGTH,
969 0956 2 PTR;
970 0957 2
971 0958 2
972 0959 2 ! If the address value is -1 then the parameter is not set.
973 0960 2
974 0961 2 IF ((.DATPTR)<0,32> EQLU -1 THEN
975 0962 3 BEGIN
976 0963 3 .DATPTR = ..DATPTR + 4;
977 0964 3 RETURN NML$_STS_PTY;
978 0965 2 END;
979 0966 2
980 0967 2 RANGE_BEGIN = ((.DATPTR)<0,16>;
981 0968 2 RANGE_END = ((.DATPTR)<16,32>;
982 0969 2 PTR = NML$T_PRMBUFFER;
983 0970 2 CM_COUNT = T;
984 0971 2
985 0972 2 CH$WCHAP A (2, PTR);
986 0973 2 PTR = CH$MOVE (2, RANGE_BEGIN, .PTR);
987 0974 2
988 0975 2 ! If the range beginning = range end, don't include range end.
989 0976 2
990 0977 2 IF .RANGE_BEGIN NEQ .RANGE_END THEN
991 0978 3 BEGIN
992 0979 3 CM_COUNT = .CM_COUNT + 1;

```



```

: 993      0980      3      CH$WCHAR A (2, PTR);
: 994      0981      3      PTR = CH$MOVE (2, RANGE_END, .PTR);
: 995      0982      2      END;
: 996      0983      2
: 997      0984      2      LENGTH = .PTR - NML$T_PRMBUFFER;
: 998      0985      2
: 999      0986      2      ! Add coded multiple subaddresses field to output message.
1000     0987      2
1001     0988      2      NML$ADDMSGPRM (.BUFDSC,
1002     0989      2          .MSGSIZE,
1003     0990      2          .SEM_LIST [PST$W_DATAID],
1004     0991      2          .SEM_LIST [PST$B_DATATYPE] OR .CM_COUNT,
1005     0992      2          .LENGTH,
1006     0993      2          NML$T_PRMBUFFER);
1007     0994      2
1008     0995      2      !
1009     0996      2      ! Increment past range value in P4 buffer.
1010     0997      2      !
1011     0998      2      .DATPTR = ..DATPTR + 4;
1012     0999      2
1013     1000      2      RETURN NML$_STS_SUC;
: 1014     1001      1      END;

```

! end of NML\$SHORANGE

			001C	00000	.ENTRY	NML\$SHORANGE, Save R2,R3,R4	0924		
	54	00000000'	00	9E	00002	MOVAB	NML\$T_PRMBUFFER, R4	0961	
	50	14	BC	D0	000G9	MOVL	@DATPTR, R0		
	FFFFFFF		60	D1	0000D	CMPL	(R0), #-1		
			08	12	00014	BNEQ	1\$		
	14		04	C0	00016	ADDL2	#4, @DATPTR	0963	
			0C	CE	0001A	MNEGL	#12, R0	0964	
			04	00	0001D	RET			
	51	14	BC	D0	0001E	1\$:	MOVL	@DATPTR, R1	0967
	53		61	B0	00022	MOVW	(R1), RANGE_BEGIN		
50	20		10	EF	00025	EXTZV	#16, #32, (R1), R0	0968	
	52		50	B0	0002A	MOVW	R0, RANGE_END		
	51		64	9E	0002D	MOVAB	NML\$T_PRMBUFFER, PTR	0969	
	50		01	D0	00030	MOVL	#1, CM_COUNT	0970	
	81		02	90	00033	MOVW	#2, (PTR)+	0972	
	81		53	B0	00036	MOVW	RANGE_BEGIN, (PTR)+	0973	
	52		53	B1	00039	CMPL	RANGE_BEGIN, RANGE_END	0977	
			08	13	0003C	BEQL	2\$		
			50	D6	0003E	INCL	CM_COUNT	0979	
	81		02	90	00040	MOVW	#2, (PTR)+	0980	
	81		52	B0	00043	MOVW	RANGE_END, (PTR)+	0981	
	52		64	9E	00046	2\$:	MOVAB	NML\$T_PRMBUFFER, R2	0984
	51		52	C2	00049	SUBL2	R2, LENGTH		
			12	BB	0004C	PUSHR	#*M<R1,R4>	0992	
	51	04	AC	D0	0004E	MOVL	SEM_LIST, R1	0991	
	52	03	A1	9A	00052	MOVZBL	3(RT), R2		
7E	52		50	C9	00056	BISL3	CM_COUNT, R2, -(SP)		
	7E		61	3C	0005A	MOVZWL	(RT), -(SP)	0990	
	7E		AC	7D	0005D	MOVQ	BUFDSC, -(SP)	0988	
	00000000G	00	06	FB	00061	CALLS	#6, NML\$ADDMSGPRM		

NML\$SHOPRM  
V04-000

NML special volatile parameter handling routine  
NML\$SHORANGE Show range parameter

E 3  
16-Sep-1984 00:33:36  
14-Sep-1984 12:50:20

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[NML.SRC]NML\$SHOPRM.B32;1

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NML  
V04

14 BC 04 C0 00068  
50 01 D0 0006C  
04 0006F

ADDL2 #4, @DATPTR  
MOVL #1, R0  
RET

: 0998  
: 1000  
: 1001

; Routine Size: 112 bytes, Routine Base: \$CODES + 0355

.....

```

: 1016 1002 1 %SBTTL 'NML$SHOCHANNELS Show channels parameter'
: 1017 1003 1 GLOBAL ROUTINE NML$SHOCHANNELS (SEM_LIST, BUFDSC, MSGSIZE, DATDSC, DATPTR) =
: 1018 1004 1
: 1019 1005 1 +-
: 1020 1006 1 FUNCTIONAL DESCRIPTION:
: 1021 1007 1 This routine is called to format the parameter for X25 Protocol DTE
: 1022 1008 1 channels in the SHOW NICE response message. It takes the string
: 1023 1009 1 returned by the ACP in the P4 buffer and reformats it into NICE in as
: 1024 1010 1 many channel pairs as were returned in the string.
: 1025 1011 1
: 1026 1012 1 FORMAL PARAMETERS:
: 1027 1013 1
: 1028 1014 1 SEM_LIST Parameter semantic table entry address.
: 1029 1015 1 BUFDSC Output message buffer descriptor address.
: 1030 1016 1 MSGSIZE Address of current output message size.
: 1031 1017 1 DATDSC QIO buffer descriptor address.
: 1032 1018 1 DATPTR Current pointer into QIO data buffer.
: 1033 1019 1
: 1034 1020 1 IMPLICIT OUTPUTS:
: 1035 1021 1
: 1036 1022 1 ROUTINE VALUE:
: 1037 1023 1 COMPLETION CODES:
: 1038 1024 1
: 1039 1025 1 Always returns success (NML$_STS_SUC).
: 1040 1026 1
: 1041 1027 1 --
: 1042 1028 1
: 1043 1029 2 BEGIN
: 1044 1030 2
: 1045 1031 2 MAP
: 1046 1032 2 SEM_LIST : REF BBLOCK;
: 1047 1033 2
: 1048 1034 2 LOCAL
: 1049 1035 2 QIO_CHAN_LEN, ! Length of channels string in QIO P4 buffer.
: 1050 1036 2 PTR;
: 1051 1037 2
: 1052 1038 2
: 1053 1039 2 If the string length is 0 then the parameter is not set.
: 1054 1040 2
: 1055 1041 2 IF (..DATPTR)<0,16> EQL 0 THEN
: 1056 1042 3 BEGIN
: 1057 1043 3 .DATPTR = ..DATPTR + 2;
: 1058 1044 3 RETURN NML$_STS_PTY;
: 1059 1045 3 END;
: 1060 1046 2
: 1061 1047 2 QIO_CHAN_LEN = (..DATPTR)<0,16>;
: 1062 1048 2 .DATPTR = ..DATPTR + 2;
: 1063 1049 2 WHILE .QIO_CHAN_LEN GTR 0 DO
: 1064 1050 3 BEGIN
: 1065 1051 3 PTR = NML$_PRMBUFFER;
: 1066 1052 3
: 1067 1053 3 Build a temporary buffer containing a channel pair. Each element
: 1068 1054 3 in the channel pair consist of a parameter type field (2) and
: 1069 1055 3 a word of parameter value.
: 1070 1056 3
: 1071 1057 3 CH$WCHAR A (2, PTR);
: 1072 1058 3 PTR = CH$MOVE (2, ..DATPTR, .PTR);

```





```

1096 1081 1 %SBTTL 'NML$SHOPWSET Show password set indication'
1097 1082 1 GLOBAL ROUTINE NML$SHOPWSET (SEM_LIST, BUFDSC, MSGSIZE, DATDSC, DATPTR) =
1098 1083 1
1099 1084 1 !++
1100 1085 1 FUNCTIONAL DESCRIPTION:
1101 1086 1 This routine is called while processing a SHOW X25-SERVER DESTINATION
1102 1087 1 command - after the PSI ACP returns the destination's parameters.
1103 1088 1 If the password is set, it puts a password value of zero in the
1104 1089 1 NICE response message. If the password is not set, it does not
1105 1090 1 add anything to the response message.
1106 1091 1
1107 1092 1 FORMAL PARAMETERS:
1108 1093 1
1109 1094 1 SEM_LIST Parameter semantic table entry address.
1110 1095 1 BUFDSC Output message buffer descriptor address.
1111 1096 1 MSGSIZE Address of current output message size.
1112 1097 1 DATDSC QIO buffer descriptor address.
1113 1098 1 DATPTR Current pointer into QIO data buffer.
1114 1099 1
1115 1100 1 IMPLICIT OUTPUTS:
1116 1101 1
1117 1102 1 ROUTINE VALUE:
1118 1103 1 COMPLETION CODES:
1119 1104 1
1120 1105 1 Always returns success (NML$STS_SUC).
1121 1106 1
1122 1107 1 --
1123 1108 1
1124 1109 2 BEGIN
1125 1110 2
1126 1111 2 MAP
1127 1112 2 SEM_LIST : REF BBLOCK;
1128 1113 2
1129 1114 2 LOCAL
1130 1115 2 PASSWORD_LEN;
1131 1116 2
1132 1117 2 PASSWORD_LEN = ..DATPTR < 0, 16 >;
1133 1118 2 IF .PASSWORD_LEN GTR 0 THEN
1134 1119 2 BEGIN
1135 1120 2
1136 1121 2 Add password to message with a value of 0. This indicates simply that
1137 1122 2 the password is set, without actually returning the password.
1138 1123 2
1139 1124 2 NML$ADDMSGPRM (.BUFDSC,
1140 1125 2 .MSGSIZE,
1141 1126 2 .SEM_LIST [PST$W_DATAID],
1142 1127 2 .SEM_LIST [PST$B_DATATYPE],
1143 1128 2 1,
1144 1129 2 UPLIT (0));
1145 1130 2
1146 1131 2 END;
1147 1132 2
1148 1133 2 Increment past the password in the buffer.
1149 1134 2
1150 1135 2 .DATPTR = ..DATPTR + .PASSWORD_LEN + 2;
1151 1136 2 RETURN NML$STS_SUC;
1152 1137 1 END; ! end of NML$SHOPWSET

```

```

                                .PSECT $PLITS,NOWRT,NOEXE,2
                                00000000 00008 P.AAB: .LONG 0
                                ;

                                .PSECT $CODE$,NOWRT,2
                                .ENTRY NML$SHOPWSET, Save R2,R3,R4
                                MOVL DATPTR, R4
                                MOVL (R4), R2
                                MOVZWL (R2), PASSWORD_LEN
                                BLEQ 1$,
                                PUSHAB P.AAB
                                PUSHL #1
                                MOVL SEM_LIST, R0
                                MOVZBL 3(R0), -(SP)
                                MOVZWL (R0), -(SP)
                                MOVQ BUFDSC, -(SP)
                                CALLS #6, NML$ADDMSGPRM
                                MOVAB 2(PASSWORD_LEN)[R2], (R4)
                                MOVL #1, R0
                                RET
                                ; 1082
                                ; 1117
                                ; 1118
                                ; 1129
                                ; 1124
                                ; 1127
                                ; 1126
                                ; 1124
                                ; 1134
                                ; 1136
                                ; 1137

```

; Routine Size: 53 bytes, Routine Base: \$CODE\$ + 0428

```

1154 1138 1 %SBTTL 'NML$SHOCOUNTERS Show entity counters'
1155 1139 1 GLOBAL ROUTINE NML$SHOCOUNTERS (SEM_LIST, BUFDSC, MSGSIZE, DATDSC, DATPTR) =
1156 1140 1
1157 1141 1 |++
1158 1142 1 | FUNCTIONAL DESCRIPTION:
1159 1143 1 |
1160 1144 1 | This routine puts counter parameters into the response message.
1161 1145 1 | Since NETACP formats the counters in NICE format, and returns them
1162 1146 1 | as a string, this simply involves moving the string into the
1163 1147 1 | response message with no parameter type or string length.
1164 1148 1 |
1165 1149 1 | FORMAL PARAMETERS:
1166 1150 1 |
1167 1151 1 | SEM_LIST      Parameter semantic table entry address.
1168 1152 1 | BUFDSC        Output message buffer descriptor address.
1169 1153 1 | MSGSIZE       Address of current output message size.
1170 1154 1 | DATDSC        QIO buffer descriptor address.
1171 1155 1 | DATPTR        Current pointer into QIO data buffer.
1172 1156 1 |
1173 1157 1 | IMPLICIT OUTPUTS:
1174 1158 1 |
1175 1159 1 | Message buffer contains counter parameters.
1176 1160 1 |
1177 1161 1 | ROUTINE VALUE:
1178 1162 1 | COMPLETION CODES:
1179 1163 1 |
1180 1164 1 | Always returns success (NML$_STS_SUC).
1181 1165 1 |
1182 1166 1 | --
1183 1167 1 |
1184 1168 2 BEGIN
1185 1169 2
1186 1170 2 MAP
1187 1171 2 SEM_LIST : REF BLOCK [, BYTE];
1188 1172 2
1189 1173 2 LOCAL
1190 1174 2 LEN;
1191 1175 2
1192 1176 2 LEN = ..DATPTR < 0, 16 >;
1193 1177 2 .DATPTR = ..DATPTR + 2;
1194 1178 2
1195 1179 2 | If the length is zero then no counters were returned.
1196 1180 2
1197 1181 2 IF .LEN EQL 0
1198 1182 2 THEN
1199 1183 2 RETURN NML$_STS_SUC;
1200 1184 2
1201 1185 2 NML$ADDMSGCOU ( .BUFDSC
1202 1186 2 .MSGSIZE,
1203 1187 2 .LEN,
1204 1188 2 ..DATPTR);
1205 1189 2
1206 1190 2 .DATPTR = ..DATPTR + .LEN;
1207 1191 2
1208 1192 2 RETURN NML$_STS_SUC
1209 1193 2
1210 1194 1 END; ! End of NML$SHOCOUNTERS

```



			0004 00000	.ENTRY	NML\$SHOCOUNTERS, Save R2	:	1139
	50	14	BC D0 00002	MOVL	@DATPTR, R0	:	1176
	52		60 3C 00006	MOVZWL	(R0), LEN	:	
	14 BC		02 C0 00009	ADDL2	#2, @DATPTR	:	1177
			52 D5 0000D	TSTL	LEN	:	1181
			14 13 0000F	BEQL	1\$	:	
		14	BC DD 00011	PUSHL	@DATPTR	:	1188
			52 DD 00014	PUSHL	LEN	:	1187
	7E	08	AC 7D 00016	MOVQ	BUFDSC, -(SP)	:	1185
00000000G	00		04 FB 0001A	CALLS	#4, NML\$ADDMSGCOU	:	
	14 BC		52 C0 00021	ADDL2	LEN, @DATPTR	:	1190
	50		01 D0 00025 1\$:	MOVL	#1, R0	:	1192
			04 00028	RET		:	1194

: Routine Size: 41 bytes, Routine Base: \$CODE\$ + 045D

```

: 1212 1195 1 %SBTTL 'NMLSSHOWNER Translate Data Link Mapping bit to Owner'
: 1213 1196 1 GLOBAL ROUTINE NMLSSHOWNER (SEM_LIST, BUFDSC, MSGSIZE, DATDSC, DATPTR)=
: 1214 1197 1
: 1215 1198 1 ++
: 1216 1199 1 FUNCTIONAL DESCRIPTION:
: 1217 1200 1
: 1218 1201 1 This routine is called when doing a SHOW CIRC CHAR. It looks
: 1219 1202 1 at the bit value returned by the ACP for DLM (Data Link Mapping),
: 1220 1203 1 and, if it's set, returns an OWNER parameter value for the
: 1221 1204 1 executor node to NCP. The executor node is the only value
: 1222 1205 1 currently allowed for OWNER.
: 1223 1206 1
: 1224 1207 1
: 1225 1208 1 FORMAL PARAMETERS:
: 1226 1209 1
: 1227 1210 1 SEM_LIST Parameter semantic table entry address.
: 1228 1211 1 BUFDSC Output message buffer descriptor address.
: 1229 1212 1 MSGSIZE Address of current output message size.
: 1230 1213 1 DATDSC QIO buffer descriptor address.
: 1231 1214 1 DATPTR Current pointer into QIO data buffer.
: 1232 1215 1
: 1233 1216 1 ROUTINE VALUE:
: 1234 1217 1 COMPLETION CODES:
: 1235 1218 1
: 1236 1219 1 Always returns success (NMLS_STS_SUC).
: 1237 1220 1
: 1238 1221 1 --
: 1239 1222 1
: 1240 1223 2 BEGIN
: 1241 1224 2
: 1242 1225 2 MAP
: 1243 1226 2 SEM_LIST : REF BLOCK [, BYTE];
: 1244 1227 2
: 1245 1228 2 BIND EXECUTOR = UPLIT BYTE
: 1246 1229 2 (NMA$M_PTY_COD+1, NMA$C_ENT_NOD, ! Entity type = node
: 1247 1230 2 2, WORD (0)); ! Node address = 0 (executor)
: 1248 1231 2
: 1249 1232 2 .DATPTR = ..DATPTR + 4;
: 1250 1233 2
: 1251 1234 2 ! If the address value is -1 then the owner is not set.
: 1252 1235 2 ! If the bit value is clear, then there is no owner specified.
: 1253 1236 2
: 1254 1237 2 IF ..DATPTR - 4 < 0, 32 > EQLU -1 OR
: 1255 1238 3 NOT (..DATPTR - 4 < 0, 32 >)
: 1256 1239 2 THEN
: 1257 1240 2 RETURN NMLS_STS_PTY;
: 1258 1241 2
: 1259 1242 2 !
: 1260 1243 2 ! Add coded multiple executor node id field to output message.
: 1261 1244 2
: 1262 1245 2 NMLS$ADDMSGPRM (.BUFDSC,
: 1263 1246 2 .MSGSIZE,
: 1264 1247 2 .SEM_LIST [PST$W_DATAID],
: 1265 1248 2 .SEM_LIST [PST$B_DATATYPE] OR 2,
: 1266 1249 2 $,
: 1267 1250 2 EXECUTOR);
: 1268 1251 2

```



```

: 1272      1254  1 END
: 1273      1255  1
: 1274      1256  0 ELUDOM

```

PSECT SUMMARY

Name	Bytes	Attributes
\$OWNS	256	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$SPLITS	17	NOVEC, NOWRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$CODES	1224	NOVEC, NOWRT, RD, EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)

Library Statistics

File	Total	Symbols Loaded	Percent	Pages Mapped	Processing Time
-\$255\$DUA28:[NML.OBJ]NMLLIB.L32;1	341	22	6	27	00:00.1
-\$255\$DUA28:[SHRLIB]NMLIBRY.L32;1	887	15	1	47	00:00.2
-\$255\$DUA28:[SHRLIB]NET.L32;i	1279	3	0	63	00:00.3
-\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	0	0	581	00:03.3

COMMAND QUALIFIERS

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

```

: Size:          1224 code + 273 data bytes
: Run Time:      00:27.7
: Elapsed Time: 01:04.7
: Lines/CPU Min: 2721
: Lexemes/CPU-Min: 10955
: Memory Used:  128 pages
: Compilation Complete

```



