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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	MMM	LLL
NNNNNN		NNN	MMM	MMM	MMM	LLL
NNNNNN		NNN	MMM	MMM	MMM	LLL
NNN	NNN	NNN	MMM		MMM	LLL
NNN	NNN	NNN	MMM		MMM	LLL
NNN	NNN	NNN	MMM		MMM	LLL
NNN	NNNNNN	NNN	MMM		MMM	LLL
NNN	NNNNNN	NNN	MMM		MMM	LLL
NNN	NNNNNN	NNN	MMM		MMM	LLL
NNN	NNN	NNN	MMM		MMM	LLL
NNN	NNN	NNN	MMM		MMM	LLL
NNN	NNN	NNN	MMM		MMM	LLL
NNN	NNN	NNN	MMM		MMM	LLLLLLLLLLLLLLLL
NNN	NNN	NNN	MMM		MMM	LLLLLLLLLLLLLLLL
NNN	NNN	NNN	MMM		MMM	LLLLLLLLLLLLLLLL

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NN      NN  MM      MM  LL      UU      UU  TTTTTTTTTT  IIIIII  LL
NN      NN  MM      MM  LL      UU      UU  TTTTTTTTTT  IIIIII  LL
NN      NN  MMMM   MMMM LL      UU      UU      TT      II      LL
NN      NN  MMMM   MMMM LL      UU      UU      TT      II      LL
NNNN    NN  MM      MM  LL      UU      UU      TT      II      LL
NNNN    NN  MM      MM  LL      UU      UU      TT      II      LL
NN  NN  NN  MM      MM  LL      UU      UU      TT      II      LL
NN  NN  NN  MM      MM  LL      UU      UU      TT      II      LL
NN      NNNN MM      MM  LL      UU      UU      TT      II      LL
NN      NNNN MM      MM  LL      UU      UU      TT      II      LL
NN      NN  MM      MM  LL      UU      UU      TT      II      LL
NN      NN  MM      MM  LL      UU      UU      TT      II      LL
NN      NN  MM      MM  LLLLLLLLLL  UUUUUUUUUU  TT      IIIIII  LLLLLLLLLL
NN      NN  MM      MM  LLLLLLLLLL  UUUUUUUUUU  TT      IIIIII  LLLLLLLLLL

```

```

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

```

```

1 0001 0 %TITLE 'NML Utility routines'
2 0002 0 MODULE NML$UTILITY (
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
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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.
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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 for handling a variety of common
40 0040 1     functions.
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 MKP0009          Kathy Perko          23-July-1984
51 0051 1     Change area number defaulting so that, if no area number
52 0052 1     is supplied in the NICE command, the executor node's area
53 0053 1     is used.  This means the permanent database executor area
54 0054 1     number for permanent database operations, and the volatile
55 0055 1     database executor area for volatile database operations.
56 0056 1
57 0057 1     V03-008 MKP0008          Kathy Perko          21-June-1984

```

```

58 0058 1 |
59 0059 1 |
60 0060 1 |
61 0061 1 | V03-007 MKP0007 Kathy Perko 19-April-1984
62 0062 1 | Modify NML$GETEXEID to call NML$GETEXENAM instead of
63 0063 1 | NML$GETNODNAM.
64 0064 1 |
65 0065 1 | V03-006 MKP0006 Kathy Perko 18-April-1984
66 0066 1 | Fix NML$CHKEXEID so it's checking only a word for the
67 0067 1 | node address (instead of a longword).
68 0068 1 |
69 0069 1 | V03-005 MKP0005 Kathy Perko 25-Mar-1984
70 0070 1 | Add a routine to check a node number, and, if it's got
71 0071 1 | an area = 0, then convert it to 1 if talking to a Phase IV
72 0072 1 | NCP, and convert it to the exec's area if talking to a
73 0073 1 | Phase III NCP.
74 0074 1 | Use global executor node addresses.
75 0075 1 |
76 0076 1 | V03-004 MKP0004 Kathy Perko 5-Feb-1984
77 0077 1 | Make sure permanent database file opens are done at the
78 0078 1 | right times.
79 0079 1 |
80 0080 1 | V03-003 MKP0003 Kathy Perko 4-Aug-1983
81 0081 1 | Make changes to convert node permanent database to utilize
82 0082 1 | multiple ISAM keys. This should improve performance.
83 0083 1 |
84 0084 1 | V03-002 MKP0002 Kathy Perko 21-June-1982
85 0085 1 | Add to NML$BLDP2 so that it will take search key values
86 0086 1 | with a word length.
87 0087 1 |
88 0088 1 | V03-001 MKP0001 Kathy Perko 21-April-1982
89 0089 1 | Change NML$BLDP2 to build P2 buffers with second start key
90 0090 1 | and no start key. Also, always include a context area.
91 0091 1 | Add support for entity qualifiers.
92 0092 1 |
93 0093 1 | V02-001 LMK0001 Len Kawell 21-Jul-1981
94 0094 1 | Modifications for new NETACP control Q10.
95 0095 1 |
96 0096 1 |

```

```
0097 1 %SBTTL 'Declarations'
0098 1
100 0099 1
101 0100 1 : TABLE OF CONTENTS:
102 0101 1
103 0102 1
104 0103 1 FORWARD ROUTINE
105 0104 1 NML$BLDP2 : NOVALUE,
106 0105 1 NML$CHKEXE,
107 0106 1 NML$SET UP EXEC_ID,
108 0107 1 NML$GETEXEADR,
109 0108 1 NML$GETEXENAM,
110 0109 1 NML$GETNODNAM,
111 0110 1 NML$GETVOLNDNAM,
112 0111 1 NML$GETNODADR,
113 0112 1 NML$GETVOLNDADR,
114 0113 1 NML$GETEXEID,
115 0114 1 NML$GETINFTABS,
116 0115 1 NML$FIX_NODE_NUM;
117 0116 1
118 0117 1 :
119 0118 1 : INCLUDE FILES:
120 0119 1
121 0120 1
122 0121 1 LIBRARY 'LIB$:NMLLIB.L32';
123 0122 1 LIBRARY 'SHRLIB$:NMALIBRY.L32';
124 0123 1 LIBRARY 'SHRLIB$:NET.L32';
125 0124 1 LIBRARY 'SYS$LIBRARY:STARLET.L32';
126 0125 1
127 0126 1 :
128 0127 1 : OWN STORAGE:
129 0128 1
130 0129 1
131 0130 1 : Many NICE commands need the executor node's address and/or name. Save them
132 0131 1 : here. The volatile database exec name and address can't change when
133 0132 1 : the exec's state is ON, so they are only retrieved once for each run of
134 0133 1 : NML$SHR. The permanent database exec name and address are retrieved, at
135 0134 1 : most, once per NICE command. They are not retrieved if they are not needed.
136 0135 1
137 0136 1 GLOBAL
138 0137 1 nml$gw_vol_exec_addr: WORD,
139 0138 1 nml$gw_perm_exec_addr: WORD,
140 0139 1 nml$t_vol_exec_name: BBLOCK [16],
141 0140 1 nml$gq_vol_exec_name_dsc: VECTOR [2] INITIAL (0, nml$t_vol_exec_name),
142 0141 1 nml$t_perm_exec_name: BBLOCK [16],
143 0142 1 nml$gq_perm_exec_name_dsc: VECTOR [2] INITIAL (0, nml$t_perm_exec_name);
144 0143 1
145 0144 1 :
146 0145 1 : Parameter buffers and descriptors for use in handling volatile data base
147 0146 1 : data.
148 0147 1
149 0148 1 OWN
150 0149 1 p2buffer : VECTOR [nml$k_p2buflen, BYTE],
151 0150 1 prmbuffer : VECTOR [256, BYTE];
152 0151 1
153 0152 1 BIND
154 0153 1 p2bfdsc = UPLIT (nml$k_p2buflen, p2buffer) : VECTOR [2],
```

```
155      0154 1      prmdsc = UPLIT (256, prmbuffer) : VECTOR [2];
156      0155 1
157      0156 1      OJH
158      0157 1      msglength;
159      0158 1
160      0159 1      ;
161      0160 1      ; EXTERNAL REFERENCES:
162      0161 1      ;
163      0162 1
164      0163 1      $nml_extdef;
165      0164 1
166      0165 1      EXTERNAL
167      0166 1          nml$gb_ncp_version;
168      0167 1
169      0168 1      EXTERNAL LITERAL
170      0169 1          nml$_qiobfov;
171      0170 1
172      0171 1      EXTERNAL ROUTINE
173      0172 1          nml$bld_reply,
174      0173 1          nml$openfile,
175      0174 1          nml$searchfld,
176      0175 1          nml$error_1,
177      0176 1          nml$readrecord,
178      0177 1          nml$netqio;
179      0178 1
```

```

181 0179 1 %SBTTL 'NML$BLDP2 Build P2 buffer and descriptor'
182 0180 1 GLOBAL ROUTINE NML$BLDP2 (LEN1, ADR1, LEN2, ADR2, P2DSC, RESDSC) : NOVALUE =
183 0181 1
184 0182 1 ++
185 0183 1 FUNCTIONAL DESCRIPTION:
186 0184 1
187 0185 1     This routine builds the P2 buffer and descriptor for show operations.
188 0186 1     The search key is added followed by the start key.
189 0187 1
190 0188 1 FORMAL PARAMETERS:
191 0189 1
192 0190 1     LEN1           First search key length.  If LEN1 is:
193 0191 1                 - zero then ADR1 contains a longword search key.
194 0192 1                 - >0 it contains the length of a string which
195 0193 1                   ADR1 points to.
196 0194 1                 - -1 then search key ID is a wildcard, and nothing
197 0195 1                   needs to be put into the P2 buffer for it.
198 0196 1                 - -2 then ADR1 contains a word search key.
199 0197 1     ADR1           First search key address.  If LEN1 is zero then this
200 0198 1                 is the longword value of the search key.  If LEN1 is -1 then
201 0199 1                 the search key is omitted.
202 0200 1     LEN2           Second search key length.  Same rules apply as for
203 0201 1                 LEN1.
204 0202 1     ADR2           Second search key address.  Same rules apply as for
205 0203 1                 ADR1.
206 0204 1     P2DSC         Address of P2 descriptor.  This routine assumes that
207 0205 1                 the buffer is largest enough to handle the result.
208 0206 1                 The maximum P2 buffer required by NML is 36 bytes.
209 0207 1     RESDSC        Address of descriptor to hold resulting P2.
210 0208 1
211 0209 1 IMPLICIT OUTPUTS:
212 0210 1     The buffer described by P2DSC contains the search key and
213 0211 1     start key information.
214 0212 1
215 0213 1 --
216 0214 1
217 0215 2 BEGIN
218 0216 2
219 0217 2 MAP
220 0218 2     P2DSC : REF DESCRIPTOR,
221 0219 2     RESDSC : REF DESCRIPTOR;
222 0220 2
223 0221 2 OWN
224 0222 2     COLLATE_START_VALUE: VECTOR [NFB$C CTX SIZE, BYTE]
225 0223 2                 INITIAL ( REP NFB$C CTX_SIZE OF BYTE (0));
226 0224 2
227 0225 2 LOCAL
228 0226 2     MSGSIZE,
229 0227 2     COUNT,           ! P2 buffer length
230 0228 2     PTR;             ! P2 buffer pointer
231 0229 2
232 0230 2
233 0231 2     Calculate the length of the resulting P2 buffer, and signal if
234 0232 2     the buffer supplied isn't big enough.
235 0233 2
236 0234 2     COUNT = 4;           ! Account for count at beginning of buffer.
237 0235 2     SELECTONE .LEN1 OF

```

```

238 0236 2 SET
239 0237 2 [-2]: COUNT = .COUNT + 2; ! It's a word
240 0238 2 [0]: COUNT = .COUNT + 4; ! It's a longword
241 0239 2 [1 TO 255]: COUNT = .COUNT + .LEN1 + 2 ! It's a string.
242 0240 TES;
243 0241 2
244 0242 2 SELECTONE .LEN2 OF
245 0243 2 SET
246 0244 2 [-2]: COUNT = .COUNT + 2; ! It's a word
247 0245 2 [0]: COUNT = .COUNT + 4; ! It's a longword
248 0246 2 [1 TO 255]: COUNT = .COUNT + .LEN2 + 2 ! It's a string.
249 0247 2 TES;
250 0248 2
251 0249 2 COUNT = .COUNT + NFBS$C CTX SIZE;
252 0250 2 IF .COUNT GTR .P2DSC [DSC$Q_LENGTH] THEN
253 0251 2 |
254 0252 2 | The P2 buffer will overflow. Signal an NML error.
255 0253 2 |
256 0254 2 BEGIN
257 0255 2 NML$AB_MSGBLOCK [MSB$S_FLAGS] = MSB$M MSG FLD; ! Set message text flag.
258 0256 2 NML$AB_MSGBLOCK [MSB$S_CODE] = NMA$C STS MPR;
259 0257 2 NML$AB_MSGBLOCK [MSB$S_TEXT] = NML$ QIOBFOVF;
260 0258 2 NML$BLD_REPLY (NML$AB_MSGBLOCK, MSGSIZE); ! Build message
261 0259 2 $SIGNAL_MSG (NML$AB_SNDBUFFER, .MSGSIZE); ! Signal it.
262 0260 2 END;
263 0261 2
264 0262 2 PTR = .P2DSC [DSC$A_POINTER] + 4; ! Skip over return count
265 0263 2
266 0264 2 |
267 0265 2 | Add first search key value to the P2 buffer.
268 0266 2 |
269 0267 2 SELECTONE .LEN1 OF
270 0268 2 SET
271 0269 2 [-2]: PTR = CH$MOVE (2, ADR1, .PTR); ! It's a word
272 0270 2 [0]: PTR = CH$MOVE (4, ADR1, .PTR); ! It's a longword
273 0271 2 [1 TO 255]: ! It's a string.
274 0272 2 BEGIN
275 0273 2 CH$WCHAR_A (.LEN1<0,8>, PTR);
276 0274 2 CH$WCHAR_A (.LEN1<8,8>, PTR);
277 0275 2 PTR = CH$MOVE (.LEN1, .ADR1, .PTR);
278 0276 2 END
279 0277 2 TES;
280 0278 2
281 0279 2 |
282 0280 2 | Add search key two to buffer.
283 0281 2 |
284 0282 2 SELECTONE .LEN2 OF
285 0283 2 SET
286 0284 2 [-2]: PTR = CH$MOVE (2, ADR2, .PTR); ! It's a word
287 0285 2 [0]: PTR = CH$MOVE (4, ADR2, .PTR); ! It's a longword
288 0286 2 [1 TO 255]: ! It's a string.
289 0287 2 BEGIN
290 0288 2 CH$WCHAR_A (.LEN2<0,8>, PTR);
291 0289 2 CH$WCHAR_A (.LEN2<8,8>, PTR);
292 0290 2 PTR = CH$MOVE (.LEN2, .ADR2, .PTR);
293 0291 2 END
294 0292 2 TES;

```

: R


```

: 295 0293 2
: 296 0294 2
: 297 0295 2
: 298 0296 2
: 299 0297 2
: 300 0298 2
: 301 0299 2
: 302 0300 2
: 303 0301 2
: 304 0302 2
: 305 0303 2
: 306 0304 2
: 307 0305 2
: 308 0306 2
: 309 0307 2
: 310 0308 2
: 311 0309 1

```

Set up a context area of a string of nulls. NETACP will replace the null string with a start value of the last database entry matched by the search key. This allows NML to reissue the QIU so that NETACP will start searching where it left off from the previous QIU. Used for plural entity operations (KNOWN, ACTIVE).

```

PTR = CH$MOVE ( NFB$C_CTX_SIZE, COLLATE_START_VALUE, .PTR);
Set up resulting descriptor for return.
RESDSC [DSC$W_LENGTH] = .PTR - .P2DSC [DSC$A_POINTER];
RESDSC [DSC$A_POINTER] = .P2DSC [DSC$A_POINTER];
! End of NML$BLDP2
END;

```

```

.TITLE NML$UTILITY NML Utility routines
.IDENT \V04-000\

.PSECT $PLITS$,NOWRT,NOEXE,2

00000068 00000 P.AAA: .LONG 104
00000000' 00004 .ADDRESS P2BUFFER
00000100 00008 P.AAB: .LONG 256
00000000' 0000C .ADDRESS PRMBUFFER

.PSECT $OWNS$,NOEXE,2

00000 P2BUFFER:
      .BLKB 104
00068 PRMBUFFER:
      .BLKB 256
00168 MSGLENGTH:
      .BLKB 4
00# 0016C COLLATE_START_VALUE:
      .BYTE 0[64]

.PSECT $GLOBALS$,NOEXE,2

00000 NML$GW_VOL_EXEC_ADDR::
      .BLKB 2
00002 NML$GW_PERM_EXEC_ADDR::
      .BLKB 2
00004 NML$T_VOL_EXEC_NAME::
      .BLKB 16
00000000 00014 NML$GQ_VOL_EXEC_NAME_DSC::
      .LONG 0
00000000' 00018 .ADDRESS NML$T_VOL_EXEC_NAME
0001C NML$T_PERM_EXEC_NAME::
      .BLKB 16
00000000 0002C NML$GQ_PERM_EXEC_NAME_DSC::
      .LONG 0
00000000' 00030 .ADDRESS NML$T_PERM_EXEC_NAME

```

P2BFDSC=
PRMDSC=

P.AAA
P.AAB

```

.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$GQ_NETRAMDSC
.EXTRN NML$GQ_RECBFDSC
.EXTRN NML$GW_PRMDESCNT
.EXTRN NML$GB_NCP_VERSION
.EXTRN NML$QIOBDFVF, NML$BLD_REPLY
.EXTRN NML$OPENFILE, NML$SEARCHFLD
.EXTRN NML$ERROR_1, NML$READRECORD
.EXTRN NML$NETQID

```

.PSECT \$CODE\$,NOWRT,2

```

                    01FC 0000
58 00000000G 00 9E 00002
5E          04 C2 00009
50          04 D0 0000C
52          04 AC D0 0000F
      FFFFFFFE 8F 52 D1 00013
                    05 12 0001A
50          02 C0 0001C
                    19 11 0001F

```

```

.ENTRY NML$BLDP2, Save R2,R3,R4,R5,R6,R7,R8
MOVAB NML$AB_MSGBLOCK, R8
SUBL2 #4, SP
MOVL #4, COUNT
MOVL LEN1, R2
CML R2, #-2
BNEQ 1$
ADDL2 #2, COUNT
BRB 3$

```

```

: 0180
:
: 0234
: 0235
: 0237
:

```

			52	D5	00021	1\$:	TSTL	R2		0238	
			05	12	00023		BNEQ	2\$			
	50		04	C0	00025		ADDL2	#4, COUNT			
			10	11	00028		BRB	3\$			
			0E	15	0002A	2\$:	BLEQ	3\$		0239	
	000000FF	8F	52	D1	0002C		CMPL	R2, #255			
			05	14	00033		BGTR	3\$			
	50		02	A240	9E	00035	MOVAB	2(R2)[COUNT], COUNT			
			57	OC	AC	D0	0003A	3\$:	MOVL	LEN2, R7	0242
	FFFFFFFE	8F	57	D1	0003E		CMPL	R7, #-2		0244	
			05	12	00045		BNEQ	4\$			
	50		02	C0	00047		ADDL2	#2, COUNT			
			19	11	00C4A		BRB	6\$			
			57	D5	0004C	4\$:	TSTL	R7		0245	
			05	12	0004E		BNEQ	5\$			
	50		04	C0	00050		ADDL2	#4, COUNT			
			10	11	00053		BRB	6\$			
			0E	15	00055	5\$:	BLEQ	6\$		0246	
	000000FF	8F	57	D1	00057		CMPL	R7, #255			
			05	14	0005E		BGTR	6\$			
	50		02	A740	9E	00060	MOVAB	2(R7)[COUNT], COUNT			
	50		40	A0	9E	00065	6\$:	MOVAB	64(R0), COUNT	0249	
	56		14	AC	D0	00069	MOVL	P2DSC, R6		0250	
50	66	10	00	ED	0006D		CMPZV	#0, #16, (R6), COUNT			
			2F	18	00072		BGEQ	7\$			
			04	D0	00074		MOVL	#4, NML\$AB_MSGBLOCK		0255	
	04	A8	05	8E	00077		MNEGB	#5, NML\$AB_MSGBLOCK+4		0256	
	OC	A8	00000000G	8F	D0	0007B	MOVL	#NML\$QIOBFOVF, NML\$AB_MSGBLOCK+12		0257	
			4100	8F	BB	00083	PUSHR	#^M<R8, SP>		0258	
	00000000G	00	02	FB	00087		CALLS	#2, NML\$BLD_REPLY			
			6E	DD	0008E		PUSHL	MSGSIZE		0259	
			00000000G	00	9F	00090	PUSHAB	NML\$AB_SNDBUFFER			
			01F90000	8F	DD	00096	PUSHL	#33095880			
	00000000G	00	03	FB	0009C		CALLS	#3, LIB\$SIGNAL			
53	04	A6	04	C1	000A3	7\$:	ADDL3	#4, 4(R6), PTR		0262	
	FFFFFFFE	8F	52	D1	000A8		CMPL	R2, #-2		0269	
			06	12	000AF		BNEQ	8\$			
	83		08	AC	B0	000B1	MOVW	ADR1, (PTR)+			
			1E	11	000B5		BRB	10\$			
			52	D5	000B7	8\$:	TSTL	R2		0270	
			06	12	000B9		BNEQ	9\$			
	83		08	AC	D0	000BB	MOVL	ADR1, (PTR)+			
			14	11	000BF		BRB	10\$			
			12	15	000C1	9\$:	BLEQ	10\$		0271	
	000000FF	8F	52	D1	000C3		CMPL	R2, #255			
			09	14	000CA		BGTR	10\$			
	83		04	AC	B0	000CC	MOVW	LEN1, (PTR)+		0273	
63	08	BC	52	28	000D0		MOVW	R2, @ADR1, (PTR)		0275	
	FFFFFFFE	8F	57	D1	000D5	10\$:	CMPL	R7, #-2		0284	
			06	12	000DC		BNEQ	11\$			
	83		10	AC	B0	000DE	MOVW	ADR2, (PTR)+			
			1E	11	000E2		BRB	13\$			
			57	D5	000E4	11\$:	TSTL	R7		0285	
			06	12	000E6		BNEQ	12\$			
	83		10	AC	D0	000E8	MOVL	ADR2, (PTR)+			
			14	11	000EC		BRB	13\$			
			12	15	000EE	12\$:	BLEQ	13\$		0286	

NMLSUTILITY
V04-000

NML Utility routines
NMLSBLDP2 Build P2 buffer and descriptor

J 11
16-Sep-1984 00:38:11
14-Sep-1984 12:50:22

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[NML.SRC]NMLUTIL.B32;1

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000000FF	8F		57	D1	000F0		CPL	R7, #255		
			09	14	000F7		BGTR	13\$		
			AC	B0	000F9		MOVW	LEN2, (PTR)+		0288
63	10		57	28	000FD		MOV3	R7, @ADR2, (PTR)		0290
63	00C00000'		8F	28	00102	13\$:	MOV3	#64, COLLATE_START_VALUE, (PTR)		0302
			AC	D0	0010C		MOVL	RESDSC, R0		0306
60			04	A6	A3	00110	SUBW3	4(R6), PTR, (R0)		
	04		04	A6	D0	00115	MOVL	4(R6), 4(R0)		0307
					04	0011A	RET			0309

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

```

: 313 0310 1 %SBTTL 'NML$CHKEXE Check node address against executor'
: 314 0311 1 GLOBAL ROUTINE NML$CHKEXE (NODE_ID, NODE_ADDR, NODE_NAME_LEN, NODE_NAME_ADDR) =
: 315 0312 1
: 316 0313 1 |**
: 317 0314 1 | FUNCTIONAL DESCRIPTION:
: 318 0315 1 |
: 319 0316 1 |     This routine compares the specified node address with the executor node
: 320 0317 1 |     address to see if they match.
: 321 0318 1 |
: 322 0319 1 | FORMAL PARAMETERS:
: 323 0320 1 |     NODE_ID           Equals NMA$C_PCNO_ADD if routine is to check the executor
: 324 0321 1 |                     address and NMA$C_PCNO_NNA if the routine is to check
: 325 0322 1 |                     the executor's name.
: 326 0323 1 |     NODE_ADDR        Node address (word) to match against executor's
: 327 0324 1 |     NODE_NAME_LEN    Length of node name to match against executor's
: 328 0325 1 |     NODE_NAME_ADDR   Address of node name string to match against executor's
: 329 0326 1 |
: 330 0327 1 | ROUTINE VALUE:
: 331 0328 1 | COMPLETION CODES:
: 332 0329 1 |     nml$sts_cmp - The node id is not the executor's
: 333 0330 1 |     nml$sts_suc - The node id is the executor's
: 334 0331 1 |
: 335 0332 1 | --
: 336 0333 1 |
: 337 0334 2 BEGIN
: 338 0335 2
: 339 0336 2 MAP
: 340 0337 2     node_id       : WORD,
: 341 0338 2     node_addr    : WORD;
: 342 0339 2
: 343 0340 2 LOCAL
: 344 0341 2     exeadr        : WORD,
: 345 0342 2     exenambuf    : VECTOR [6, BYTE],
: 346 0343 2     exenamdsc   : DESCRIPTOR,
: 347 0344 2     exenamlen,
: 348 0345 2     status;
: 349 0346 2
: 350 0347 2 MAP
: 351 0348 2     nml$gb_options : BBLOCK [1];
: 352 0349 2
: 353 0350 2 |
: 354 0351 2 | If this is a permanent database operation, and the node permanent
: 355 0352 2 | data base file isn't already open, open it.
: 356 0353 2 |
: 357 0354 2 | IF .nml$gb_options [nma$v_opt_per] THEN
: 358 0355 2 |     nml$openfile (nma$c_opn_node, nma$c_opn_ac_ro);
: 359 0356 2 | status = nml$sts_cmp;
: 360 0357 2 |
: 361 0358 2 |
: 362 0359 2 | If this routine was called to compare a node name against the executor's
: 363 0360 2 | name, call NML$GETEXENAM to do the comparison.
: 364 0361 2 |
: 365 0362 2 | IF .node_id EQL nma$c_pcno_nna THEN
: 366 0363 2 |     BEGIN
: 367 0364 2 |         exenamdsc [dsc$w_length] = 6;
: 368 0365 2 |         exenamdsc [dsc$a_pointer] = exenambuf;
: 369 0366 2 |         IF nml$getexenam (exenamdsc, exenamlen) THEN

```

```

370 0367 3 IF CH$EQL (.node_name_len, .node_name_addr, .exenamlen, exenambuf) THEN
371 0368 3     status = nml$sts_suc;
372 0369 3 END
373 0370 2 ELSE
374 0371 2
375 0372 2 If this routine was called to compare a node address against the executor's
376 0373 2 address, call NML$GETEXEADR to do the comparison.
377 0374 2
378 0375 3 BEGIN
379 0376 3 IF .node_addr EQL 0 THEN
380 0377 3     status = nml$sts_suc
381 0378 3 ELSE
382 0379 4 BEGIN
383 0380 4 IF nml$getexeadr (exeadr) THEN
384 0381 4     IF .exeadr EQL .node_addr THEN
385 0382 4         status = nml$sts_suc;
386 0383 3     END;
387 0384 2 END;
388 0385 2 RETURN .status
389 0386 2
390 0387 1 END;

```

! End of nml\$chkexe

				001C 00000	.ENTRY	NML\$CHKEXE, Save R2,R3,R4	0311
	SE			18 C2 00002	SUBL2	#24, SP	
		00000000G		00 95 00005	TSTB	NML\$GB_OPTIONS	0354
				09 18 0000B	BGEQ	1\$	
				7E 7C 0000D	CLRQ	-(SP)	0355
	00000000G	00		02 FB 0000F	CALLS	#2, NML\$OPENFILE	
		54		10 CE 00016	MNEGL	#16, STATUS	0356
	01F4	8F	04	AC B1 00019	CMPW	NODE_ID, #500	0362
				23 12 0001F	BNEQ	2\$	
	08	AE		06 B0 00021	MOVW	#6, EXENAMDSC	0364
	0C	AE	10	AE 9E 00025	MOVAB	EXENAMBUF, EXENAMDSC+4	0365
				5E DD 0002A	PUSHL	SP	0366
			0C	AE 9F 0002C	PUSHAB	EXENAMDSC	
	00000000V	00		02 FB 0002F	CALLS	#2, NML\$GETEXENAM	
		27		50 E9 00036	BLBC	R0, 5\$	
6E	00	10	0C	AC 2D 00039	CMPC5	NODE_NAME_LEN, @NODE_NAME_ADDR, #0, -	0367
			10	AE 00040		EXENAMLEN, EXENAMBUF	
				17 11 00042	BRB	3\$	
			08	AC B5 00044	TSTW	NODE_ADDR	0376
				14 13 00047	BEQL	4\$	
			04	AE 9F 00049	PUSHAB	EXEADR	0380
	00000000V	00		01 FB 0004C	CALLS	#1, NML\$GETEXEADR	
		0A		50 E9 00053	BLBC	R0, 5\$	
	08	AC	04	AE B1 00056	CMPW	EXEADR, NODE_ADDR	0381
				03 12 0005B	BNEQ	5\$	
		54		01 D0 0005D	MOVL	#1, STATUS	0382
		50		54 D0 00060	MOVL	STATUS, R0	0385
				04 00063	RET		0387

: Routine Size: 100 bytes, Routine Base: \$CODE\$ + 011B

NMLSUTILITY
V04-000

NML Utility routines
NMLSCHKEXE Check node address against executor

M 11
16-Sep-1984 00:38:11
14-Sep-1984 12:50:22

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[NML.SRC]NMLUTIL.B32;1

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NM
VO

```

392 0388 1 %SBTTL 'NML$SET UP EXEC ID Set up globals for executors name and address'
393 0389 1 GLOBAL ROUTINE NML$SET_UP_EXEC_ID =
394 0390 1
395 0391 1 |++
396 0392 1 | FUNCTIONAL DESCRIPTION:
397 0393 1 | This routine gets the name and address of the executor node from the
398 0394 1 | volatile or permanent database and saves them in some global fields.
399 0395 1 |
400 0396 1 | FORMAL PARAMETERS:
401 0397 1 | NONE
402 0398 1 |
403 0399 1 | ROUTINE VALUE:
404 0400 1 | COMPLETION CODES:
405 0401 1 |
406 0402 1 | --
407 0403 1
408 0404 2 BEGIN
409 0405 2
410 0406 2 MAP
411 0407 2     nml$gb_options : BBLOCK [1];
412 0408 2
413 0409 2 LOCAL
414 0410 2     fldadr,
415 0411 2     fldsize,
416 0412 2     temp,
417 0413 2     recdsc : VECTOR [2],
418 0414 2     p2dsc : VECTOR [2],      ! Descriptor for Q10 P2 (Key) buffer.
419 0415 2     ptr,
420 0416 2     status;
421 0417 2
422 P 0418 2 $NFB$DSC(NFB$DSC, SHOW, LNI
423 P 0419 2     ,NFB$C_WILDCARD,      ! Search key 1 = wildcard, oper1 = eql
424 P 0420 2     ,NFB$C_WILDCARD,      ! Search key 2 = wildcard, oper2 = eql
425 P 0421 2     ,ADD
426 0422 2     ,NAM),
427 0423 2
428 0424 2 IF .nml$gb_options [nma$opt_per] THEN
429 0425 3 BEGIN
430 0426 3 IF .nml$gw_perm_exec_addr EQL 0 THEN
431 0427 4 BEGIN
432 0428 4
433 0429 4 | If the node permanent data base file isn't already open, open it.
434 0430 4
435 0431 4 nml$openfile (nma$c_opn_node, nma$c_opn_ac_ro);
436 0432 4 recdsc [1] = .prmdsc [1];
437 0433 4 status = nml$readrecord (nma$c_opn_node,      ! Node database file ID
438 0434 4     UPLIT (nmn$c_typ_key_ref),      ! ISAM key = node type
439 0435 4     UPLIT (nmn$c_typ_key_len,      ! ISAM key value = executor
440 0436 4     UPLIT (nml$c_executor)),
441 0437 4     prmdsc,      ! Read buffer descriptor
442 0438 4     recdsc,      ! Return data descriptor
443 0439 4     temp);      ! Not used.
444 0440 4 IF .status THEN
445 0441 5 BEGIN
446 0442 5     fldadr = 0;
447 0443 5     IF nma$searchfld ( recdsc,
448 0444 5     nma$c_pcno_add,

```



```

449 0445 5 fldsize,
450 0446 5 fldadr) THEN
451 0447 5 CH$MOVE (2, CH$PTR (.fldadr), nml$gw_perm_exec_addr);
452 0448 5 fldadr = 0;
453 0449 5 IF nma$searchfld ( recdsc,
454 0450 5 nma$c_pcno_nna,
455 0451 5 nml$gq_perm_exec_name_dsc [0],
456 0452 5 fldadr) THEN
457 0453 5 CH$MOVE (.nml$gq_perm_exec_name_dsc [0],
458 0454 5 .fldadr,
459 0455 5 .nml$gq_perm_exec_name_dsc [1]);
460 0456 4 END;
461 0457 3 END;
462 0458 3 END
463 0459 2 ELSE
464 0460 3 BEGIN
465 0461 3 IF .nml$gw_vol_exec_addr EQL 0 THEN
466 0462 4 BEGIN
467 0463 4
468 0464 4 Set up search and start key buffer to get any entry in the data
469 0465 4 base. The executor node database only has one entry. Then issue
470 0466 4 the Q10 to get the node address.
471 0467 4
472 0468 4 nml$bldp2 (-1, 0, -1, 0, p2bfdsc, p2dsc);
473 0469 4 status = nml$netqio ( nfbdsc,
474 0470 4 p2dsc,
475 0471 4 fldsize,
476 0472 4 prmdsc);
477 0473 4 IF .status THEN
478 0474 5 BEGIN
479 0475 5 ptr = .prmdsc [1];
480 0476 5 CH$MOVE (2, .ptr, nml$gw_vol_exec_addr);
481 0477 5 ptr = .ptr + 4;
482 0478 5 CH$COPY (2, .ptr, 0, 4, nml$gq_vol_exec_name_dsc [0]);
483 0479 5 CH$MOVE (.nml$gq_vol_exec_name_dsc [0],
484 0480 5 .ptr + 2,
485 0481 5 .nml$gq_vol_exec_name_dsc [1]);
486 0482 5 RETURN nml$_sts_suc
487 0483 4 END;
488 0484 3 END;
489 0485 2 END;
490 0486 2 RETURN .status;
491 0487 1 END;
! End of nml$set_up_exec_id

```

.PSECT \$SPLITS, NOWRT, NOEXE, 2

```

00000020 00010 P.AAC: .LONG 52
00000000' 00014 .ADDRESS U.1
00000001 00018 P.AAD: .LONG 1
00000007 0001C P.AAF: .LONG 7
00000002 00020 P.AAE: .LONG 2
00000000' 00024 .ADDRESS P.AAF

```

.PSECT \$OWNS, NOEXE, 2

```

22 001AC ; NFB
      U.1:
      00 001AD .BYTE 34
      01 001AE .BYTE 0
      00 001AF .BYTE 1
      00000001 001B0 .BYTE 0
      00000001 001B4 .LONG 1
      00 001B8 .LONG 1
      00 001B9 .BYTE 0
      0000 001BA .BYTE 0
      01010010 001BC .WORD 0
      01020041 001C0 .LONG 16842768
      00000000 001C4 .LONG 16908353
      001C8 .LONG 0
      .BLKB 4

```

U.2=

P.AAC

```

      .PSECT $CODE$,NOWRT,2
      07FC 00000
      .ENTRY NML$SET_UP_EXEC_ID, Save R2,R3,R4,R5,R6,R7,-, 0389
      R8,R9,R10
5A 00000000G 00 9E 00002 MOVAB NML$SEARCHFLD, R10
59 00000000' 00 9E 00009 MOVAB PRMDSC+4, R9
58 00000000' 00 9E 00010 MOVAB NML$GW_PERM_EXEC_ADDR, R8
5E 00000000G 1C C2 00017 SUBL2 #28, SP
      00 95 0001A TSTB NML$GB_OPTIONS 0424
      6C 18 00020 BGEQ 2$
      68 B5 00022 TSTW NML$GW_PERM_EXEC_ADDR 0426
      6B 12 00024 BNEQ 3$
      7E 7C 00026 CLRQ -(SP) 0431
00000000G 00 02 FB 00028 CALLS #2, NML$OPENFILE
      18 AE 69 D0 0002F MOVL PRMDSC+4, RECDSC+4 0432
      FC AE 5E DD 00033 PUSHL SP 0433
      14 AE 9F 00035 PUSHAB RECDSC
      0C AE 9F 00038 PUSHAB PRMDSC
      0C AE 9F 0003B PUSHAB P.AAE 0435
      0C AE 9F 0003E PUSHAB P.AAD 0434
      7E D4 00041 CLRL -(SP) 0433
00000000G 00 06 FB 00043 CALLS #6, NML$READRECORD
      57 50 D0 0004A MOVL R0, STATUS
      6E 57 E9 0004D BLBC STATUS, 4$ 0440
      04 AE D4 00050 CLRL FLDADR 0442
      04 AE 9F 00053 PUSHAB FLDADR 0443
      0C AE 9F 00056 PUSHAB FLDSIZE
      7E 01F6 8F 3C 00059 MOVZWL #502, -(SP)
      20 AE 9F 0005E PUSHAB RECDSC
      6A 04 FB 00061 CALLS #4, NML$SEARCHFLD
      04 50 E9 00064 BLBC R0, 1$
      68 04 BE B0 00067 MOVW @FLDADR, NML$GW_PERM_EXEC_ADDR
      04 AE D4 0006B 1$: CLRL FLDADR
      04 AE 9F 0006E PUSHAB FLDADR
      2A AB 9F 00071 PUSHAB NML$GW_PERM_EXEC_NAME_DSC
      7E 01F4 8F 3C 00074 MOVZWL #500, -(SP)
      20 AE 9F 00079 PUSHAB RECDSC
      6A 04 FB 0007C CALLS #4, NML$SEARCHFLD
      5E 50 E9 0007F BLBC R0, 5$

```

60	04	50	2E	A8	D0	00082	MOVL	NML\$GQ_PERM_EXEC_NAME_DSC+4, R0	: 0455
		BE	2A	A8	28	00086	MOVCL	NML\$GQ_PERM_EXEC_NAME_DSC, @FLDADR, (R0)	: 0424
				52	11	0008C	BRB	5\$: 0461
			FE	A8	B5	0008E	TSTW	NML\$GW_VOL_EXEC_ADDR	: 0468
				4D	12	00091	BNEQ	5\$: 0469
			OC	AE	9F	00093	PUSHAB	P2DSC	: 0469
			F4	A9	9F	00096	PUSHAB	P2BFDSC	: 0469
				7E	D4	00099	CLRL	-(SP)	: 0469
		7E		01	CE	0009B	MNEGL	#1, -(SP)	: 0469
				7E	D4	0009E	CLRL	-(SP)	: 0469
		7E		01	CE	000A0	MNEGL	#1, -(SP)	: 0469
	FDD9	CF		06	FB	000A3	CALLS	#6, NML\$BLDP2	: 0469
			FC	A9	9F	000A8	PUSHAB	PRMDSC	: 0469
			OC	AE	9F	000AB	PUSHAB	FLDSIZE	: 0469
			14	AE	9F	000AE	PUSHAB	P2DSC	: 0469
			04	A9	9F	000B1	PUSHAB	NFBDC	: 0469
	00000000G	00		04	FB	000B4	CALLS	#4, NML\$NETQIO	: 0473
		57		50	D0	000BB	MOVL	R0, STATUS	: 0475
		1F		57	E9	000BE	BLBC	STATUS, 5\$: 0476
		56		69	D0	000C1	MOVL	PRMDSC+4, PTR	: 0477
		FE		86	B0	000C4	MOVW	(PTR)+, NML\$GW_VOL_EXEC_ADDR	: 0478
		56		02	C0	000C8	ADDL2	#2, PTR	: 0478
04	00	66		02	2C	000CB	MOVCL	#2, (PTR), #0, #4, NML\$GQ_VOL_EXEC_NAME_DSC	: 0481
			12	A8		000D0			: 0482
		50		16	A8	D0	000D2	MOVL	NML\$GQ_VOL_EXEC_NAME_DSC+4, R0
	60	02		12	A8	28	000D6	MOVCL	NML\$GQ_VOL_EXEC_NAME_DSC, 2(PTR), (R0)
		50		01	D0	000DC	MOVL	#1, R0	: 0486
					04	000DF	RET		: 0487
		50		57	D0	000E0	MOVL	STATUS, R0	: 0487
				04	000E3		RET		: 0487

; Routine Size: 228 bytes, Routine Base: \$CODE\$ + 017F

```

493 0488 1 %SBTTL 'NML$GETEXEADR Get executor node address'
494 0489 1 GLOBAL ROUTINE NML$GETEXEADR (ADDR) =
495 0490 1
496 0491 1 |++
497 0492 1 | FUNCTIONAL DESCRIPTION:
498 0493 1 |
499 0494 1 |     This routine returns the executor node address.
500 0495 1 |
501 0496 1 | FORMAL PARAMETERS:
502 0497 1 |     ADDR          Address of word to contain node address.
503 0498 1 |
504 0499 1 | IMPLICIT INPUTS:
505 0500 1 |
506 0501 1 |     NML$GB_OPTIONS contains the command message options.
507 0502 1 |
508 0503 1 |     If this is a permanent data base operation then it is assumed
509 0504 1 |     that the node file is already open.
510 0505 1 |
511 0506 1 | IMPLICIT OUTPUTS:
512 0507 1 |
513 0508 1 |     NONE
514 0509 1 |
515 0510 1 | ROUTINE VALUE:
516 0511 1 | COMPLETION CODES:
517 0512 1 |
518 0513 1 |     If the executor node address is found then success (NML$_STS_SUC) is
519 0514 1 |     returned.  If the node address is not found, then a zero address is
520 0515 1 |     returned along with failure (NML$_STS_PTY).
521 0516 1 |
522 0517 1 | SIDE EFFECTS:
523 0518 1 |
524 0519 1 |     Destroys contents of PRMBUFFER.
525 0520 1 |
526 0521 1 | --
527 0522 1 |
528 0523 2 BEGIN
529 0524 2
530 0525 2 MAP
531 0526 2     nml$gb_options : BBLOCK [1];
532 0527 2
533 0528 2 LOCAL
534 0529 2     exec_addr,
535 0530 2     status;
536 0531 2
537 0532 2 IF .nml$gb_options [nma$y_opt_per] THEN
538 0533 2     exec_addr = nml$gw_perm_exec_addr
539 0534 2 ELSE
540 0535 2     exec_addr = nml$gw_vol_exec_addr;
541 0536 2
542 0537 2 IF .(exec_addr)<0,16> EQL 0 THEN
543 0538 2     BEGIN
544 0539 2         status = nml$set_up_exec_id ();
545 0540 2         IF NOT .status THEN
546 0541 2             |
547 0542 2             |     No executor entry found.  This should happen only for the permanent
548 0543 2             |     database, and there, not very often.
549 0544 2         |

```

```

: 550      0545 4      BEGIN
: 551      0546 4      (.addr)<0,16> = 0;
: 552      0547 4      RETURN nml$_sts_pty;
: 553      0548 3      END;
: 554      0549 2      END;
: 555      0550 2      CH$MOVE (2, .exec_addr, .addr);
: 556      0551 2      RETURN nml$_sts_suc;
: 557      0552 1      END;
! End of NMLSGETEXEADR

```

			0004 0000	.ENTRY	NMLSGETEXEADR, Save R2	: 0489
		00000000G	00 95 00002	TSTB	NML\$GB_OPTIONS	: 0532
			09 18 00008	BGEQ	1\$	
		52 00000000'	00 9E 0000A	MOVAB	NML\$GW_PERM_EXEC_ADDR, EXEC_ADDR	: 0533
			07 11 00011	BRB	2\$	
		52 00000000'	00 9E 00013	MOVAB	NML\$GW_VOL_EXEC_ADDR, EXEC_ADDR	: 0535
			62 B5 0001A	TSTW	(EXEC_ADDR)	: 0537
			0F 12 0001C	BNEQ	3\$	
	FEF9	CF	00 FB 0001E	CALLS	#0, NML\$SET_UP_EXEC_ID	: 0539
		07	50 E8 00023	BLBS	STATUS, 3\$: 0540
		04	BC B4 00026	CLRW	@ADDR	: 0546
		50	0C CE 00029	MNEGL	#12, R0	: 0547
			04 0002C	RET		
	04	BC	62 B0 0002D	MOVW	(EXEC_ADDR), @ADDR	: 0550
		50	01 D0 00031	MOVL	#1, R0	: 0551
			04 00034	RET		: 0552

: Routine Size: 53 bytes, Routine Base: \$CODE\$ + 0263

```
559 0553 1 %SBTTL 'NML$GETEXENA' Get executor node name'
560 0554 1 GLOBAL ROUTINE NML$GETEXENAM (BUFDSC, RESLEN) =
561 0555 1
562 0556 1 |++
563 0557 1 | FUNCTIONAL DESCRIPTION:
564 0558 1 |
565 0559 1 |     This routine returns the executor node name.
566 0560 1 |
567 0561 1 | FORMAL PARAMETERS:
568 0562 1 |
569 0563 1 |     BUFDSC           Address of descriptor of buffer to contain ASCII
570 0564 1 |                     node name.
571 0565 1 |     RESLEN           Resulting length of node name string.
572 0566 1 |
573 0567 1 | IMPLICIT INPUTS:
574 0568 1 |
575 0569 1 |     If this is a permanent data base operation then it is assumed
576 0570 1 |     that the node file is already open.
577 0571 1 |
578 0572 1 | IMPLICIT OUTPUTS:
579 0573 1 |
580 0574 1 |     NONE
581 0575 1 |
582 0576 1 | ROUTINE VALUE:
583 0577 1 | COMPLETION CODES:
584 0578 1 |
585 0579 1 |     If the executor node name is found then success (NML$STS_SUC) is
586 0580 1 |     returned.  If the node name is not found a zero length counted string
587 0581 1 |     is returned along with failure (NML$STS_PTY).
588 0582 1 |
589 0583 1 | SIDE EFFECTS:
590 0584 1 |
591 0585 1 |     NONE
592 0586 1 |
593 0587 1 | --
594 0588 1 |
595 0589 2 BEGIN
596 0590 2
597 0591 2 MAP
598 0592 2     bufdsc : REF DESCRIPTOR,
599 0593 2     nml$gb_options : BBLOCK [1];
600 0594 2
601 0595 2 LOCAL
602 0596 2     exec_dsc_addr: REF VECTOR,
603 0597 2     status;
604 0598 2
605 0599 2 IF .nml$gb_options [nml$gb_opt_per] THEN
606 0600 2     exec_dsc_addr = nml$gb_perm_exec_name_dsc
607 0601 2 ELSE
608 0602 2     exec_dsc_addr = nml$gb_vol_exec_name_dsc;
609 0603 2
610 0604 2 IF .exec_dsc_addr [0] EQL 0 THEN
611 0605 2     BEGIN
612 0606 2         status = nml$set_up_exec_id ();
613 0607 2         IF NOT .status THEN
614 0608 2             !
615 0609 2             ! No executor entry found.  This should happen only for the permanent
```

: R

```

: 616      0610      3          ! database, and there, not very often.
: 617      0611      3          !
: 618      0612      4          BEGIN
: 619      0613      4          .reslen = 0;
: 620      0614      4          RETURN nml$_sts_pty;
: 621      0615      3          END;
: 622      0616      3          END;
: 623      0617      3          .reslen = .exec_dsc_addr [0];
: 624      0618      3          IF ..reslen LEQ0 .bufdsc [dsc$_length] THEN
: 625      0619      3          BEGIN
: 626      0620      3          CH$MOVE (..reslen, .exec_dsc_addr [1], .bufdsc [dsc$_pointer]);
: 627      0621      3          RETURN nml$_sts_suc;
: 628      0622      3          END
: 629      0623      3          ELSE
: 630      0624      3          RETURN nml$_sts_pty;
: 631      0625      1          END;

```

! End of NML\$GETEXENAM

				003C	00000		.ENTRY	NML\$GETEXENAM, Save R2,R3,R4,R5	:	0554
		00000000G	00	95	00002		TSTB	NML\$GB_OPTIONS	:	0599
			09	18	00008		BGEQ	1\$:	
		52 00000000'	00	9E	0000A		MOVAB	NML\$GQ_PERM_EXEC_NAME_DSC, EXEC_DSC_ADDR	:	0600
			07	11	00011		BRB	2\$:	
		52 00000000'	00	9E	00013	1\$:	MOVAB	NML\$GQ VOL_EXEC_NAME_DSC, EXEC_DSC_ADDR	:	0602
			62	D5	0001A	2\$:	TSTL	(EXEC_DSC_ADDR)	:	0604
			0D	12	0001C		BNEQ	3\$:	
	FEC4	CF	00	FB	0001E		CALLS	#0, NML\$SET_UP_EXEC_ID	:	0606
		05	50	E8	00023		BLBS	STATUS, 3\$:	0607
			08	BC	D4 00026		CLRL	@RESLEN	:	0613
			1B	11	00029		BRB	4\$:	0614
		08	BC	62	D0 0002B	3\$:	MOVL	(EXEC_DSC_ADDR), @RESLEN	:	0617
			50	04	AC D0 0002F		MOVL	BUFDSC, R0	:	0618
08	BC		10	00	ED 00033		CMPZV	#0, #16, (R0), @RESLEN	:	
			0B	1F	00039		BLSSU	4\$:	
		04	B0	04	B2 08 BC 28 0003B		MOVCS	@RESLEN, @4(EXEC_DSC_ADDR), @4(R0)	:	0620
			50	01	D0 00042		MOVL	#1, R0	:	0624
				04	00045		RET		:	
			50	0C	CE 00046	4\$:	MNEGL	#12, R0	:	
				04	00049		RET		:	0625

: Routine Size: 74 bytes, Routine Base: \$CODE\$ + 0298

```
633 0626 1 %SBTTL 'NML$GETNODNAM Get node name given the address'  
634 0627 1 GLOBAL ROUTINE NML$GETNODNAM (ADDR, BUFDSC, RESLEN) =  
635 0628 1  
636 0629 1 !++  
637 0630 1 FUNCTIONAL DESCRIPTION:  
638 0631 1  
639 0632 1 This routine returns the node name that matches the  
640 0633 1 specified address.  
641 0634 1  
642 0635 1 FORMAL PARAMETERS:  
643 0636 1  
644 0637 1 ADDR Node address.  
645 0638 1 BUFDSC Address of descriptor of buffer to contain ASCII  
646 0639 1 node name.  
647 0640 1 RESLEN Resulting length of node name string.  
648 0641 1  
649 0642 1 IMPLICIT INPUTS:  
650 0643 1  
651 0644 1 NML$GB_OPTIONS contains the command message options.  
652 0645 1  
653 0646 1 If this is a permanent data base operation then it is assumed  
654 0647 1 that the node file is already open.  
655 0648 1  
656 0649 1 IMPLICIT OUTPUTS:  
657 0650 1  
658 0651 1 NONE  
659 0652 1  
660 0653 1 ROUTINE VALUE:  
661 0654 1 COMPLETION CODES:  
662 0655 1  
663 0656 1 If the executor node name is found then success (NML$STS_SUC) is  
664 0657 1 returned. If the node name is not found a zero length counted string  
665 0658 1 is returned along with failure (NML$STS_PTY).  
666 0659 1  
667 0660 1 SIDE EFFECTS:  
668 0661 1  
669 0662 1 Destroys contents of PRMBUFFER.  
670 0663 1  
671 0664 1 --  
672 0665 1  
673 0666 2 BEGIN  
674 0667 2  
675 0668 2 MAP  
676 0669 2 addr : WORD,  
677 0670 2 bufdsc : REF DESCRIPTOR,  
678 0671 2 nml$gb_options : BBLOCK [1];  
679 0672 2  
680 0673 2 LOCAL  
681 0674 2 addrdsc : VECTOR [2],  
682 0675 2 nameptr,  
683 0676 2 namesize : WORD,  
684 0677 2 temp,  
685 0678 2 recdsc : VECTOR [2];  
686 0679 2  
687 0680 2 IF .nml$gb_options [nma$v_opt_per] THEN  
688 0681 3 BEGIN  
689 0682 3 !
```



```

: 690 0683 3 ! If the node permanent data base file isn't already open, open it.
: 691 0684 3 !
: 692 0685 3 nml$openfile (nma$c_opn_node, nma$c_opn_ac_ro);
: 693 0686 3 recdsc [1] = .prmdsc [1];
: 694 0687 3 addrdsc [0] = 2;
: 695 0688 3 addrdsc [1] = addr;
: 696 0689 3 IF nml$readrecord (nma$c_opn_node, ! Node perm database file ID
: 697 0690 3 UPLIT (nma$c_pcno_add), ! Use ISAM key = node address
: 698 0691 3 addrdsc, ! ISAM key value = node address
: 699 0692 3 prmdsc, ! Read buffer descriptor
: 700 0693 3 recdsc, ! Return data descriptor
: 701 0694 3 temp) THEN ! Not used
: 702 0695 4 BEGIN
: 703 0696 4 namesize = 0;
: 704 0697 4 nameptr = 0;
: 705 0698 4 IF nma$searchfld ( recdsc,
: 706 0699 4 nma$c_pcno_nna,
: 707 0700 4 namesize,
: 708 0701 4 nameptr) THEN
: 709 0702 5 BEGIN
: 710 0703 5 CH$MOVE (.namesize, CH$PTR (.nameptr),
: 711 0704 5 CH$PTR (.bufdsc [dsc$a_pointer]));
: 712 0705 5 .reslen = .namesize;
: 713 0706 5
: 714 0707 5 RETURN nml$_sts_suc
: 715 0708 4 END;
: 716 0709 4 END
: 717 0710 3 END
: 718 0711 2 ELSE
: 719 0712 2 RETURN nml$getvolndnam (.addr, .bufdsc, .reslen);
: 720 0713 2
: 721 0714 2 !
: 722 0715 2 ! No node name found.
: 723 0716 2 !
: 724 0717 2 .reslen = 0;
: 725 0718 2
: 726 0719 2 RETURN nml$_sts_pty
: 727 0720 2
: 728 0721 1 END; ! End of NML$GETNODNAM

```

.PSECT \$SPLITS,NOWRT,NOEXE,2

000001F6 00028 P.AAG: .LONG 502 :

.PSECT \$CODE\$,NOWRT,2

56	00000000'	00	9E	00002	.ENTRY	NML\$GETNODNAM, Save R2,R3,R4,R5,R6	: 0627
5E		1C	C2	00009	MOVAB	PRMDSC+4, R6	:
	00000000G	00	95	0000C	SUBL2	#28, SP	: 0680
		62	18	00012	TSTB	NML\$GB_OPTIONS	:
		7E	7C	00014	BGEQ	1\$: 0685
	00000000G 00	02	FB	00016	CLRQ	-(SP)	:
					CALLS	#2, NML\$OPENFILE	:

	10	AE		66	D0	0001D	MOVL	PRMDSC+4, RECDSC+4	:	0686
	14	AE		02	D0	00021	MOVL	#2, ADDRDC	:	0687
	18	AE	04	AC	9E	00025	MOVAB	ADDR, ADDRDC+4	:	0688
				5E	DD	0002A	PUSHL	SP	:	0689
			10	AE	9F	0002C	PUSHAB	RECDSC	:	
			FC	A6	9F	0002F	PUSHAB	PRMDSC	:	
			20	AE	9F	00032	PUSHAB	ADDRDC	:	
			1C	A6	9F	00035	PUSHAB	P.AAG	:	0690
				7E	D4	00038	CLRL	-(SP)	:	0689
00000000G	00			06	FB	0003A	CALLS	#6, NML\$READRECORD	:	
	42			50	E9	00041	BLBC	RO, 2\$:	
			08	AE	B4	00044	CLRW	NAMESIZE	:	0696
			04	AE	D4	00047	CLRL	NAMEPTR	:	0697
			04	AE	9F	0004A	PUSHAB	NAMEPTR	:	0698
			0C	AE	9F	0004D	PUSHAB	NAMESIZE	:	
	7E		01F4	8F	3C	00050	MOVZWL	#500, -(SP)	:	
			18	AE	9F	00055	PUSHAB	RECDSC	:	
00000000G	00			04	FB	00058	CALLS	#4, NML\$SEARCHFLD	:	
	24			50	E9	0005F	BLBC	RO, 2\$:	
	50		08	AC	D0	00062	MOVL	BUFDSC, RO	:	0704
04 B0	04	BE	08	AE	28	00066	MOV3	NAMESIZE, @NAMEPTR, @4(RO)	:	
	0C	BC	08	AE	3C	0006D	MOVZWL	NAMESIZE, @RESLEN	:	0705
	50			01	D0	00072	MOVL	#1, RO	:	0707
				04		00075	RET		:	
	7E		08	AC	7D	00076	MOVQ	BUFDSC, -(SP)	:	0712
	7E		04	AC	3C	0007A	MOVZWL	ADDR, -(SP)	:	
00000000V	00			03	FB	0007E	CALLS	#3, NML\$GETVOLNDNAM	:	
				04		00085	RET		:	
			0C	BC	D4	00086	CLRL	@RESLEN	:	0717
	50			0C	CE	00089	MNEGL	#12, RO	:	0719
				04		0008C	RET		:	0721

; Routine Size: 141 bytes, Routine Base: \$CODE\$ + 02E2

```

: 730 0722 1 %SBTTL 'NML$GETVOLNDNAM Get node name given the address'
: 731 0723 1 GLOBAL ROUTINE NML$GETVOLNDNAM (ADDR, BUFDSC, RESLEN) =
: 732 0724 1
: 733 0725 1 !++
: 734 0726 1 ! FUNCTIONAL DESCRIPTION:
: 735 0727 1
: 736 0728 1 ! This routine returns the volatile node name that matches the
: 737 0729 1 ! specified address.
: 738 0730 1
: 739 0731 1 ! FORMAL PARAMETERS:
: 740 0732 1
: 741 0733 1 ! ADDR Node address.
: 742 0734 1 ! BUFDSC Address of descriptor of buffer to contain ASCII
: 743 0735 1 ! node name.
: 744 0736 1 ! RESLEN Address of longword to contain resulting length
: 745 0737 1 ! of node name string.
: 746 0738 1
: 747 0739 1 ! IMPLICIT INPUTS:
: 748 0740 1
: 749 0741 1 ! NONE
: 750 0742 1
: 751 0743 1 ! IMPLICIT OUTPUTS:
: 752 0744 1
: 753 0745 1 ! NONE
: 754 0746 1
: 755 0747 1 ! ROUTINE VALUE:
: 756 0748 1 ! COMPLETION CODES:
: 757 0749 1
: 758 0750 1 ! If the node name is found then success (NML$_STS_SUC) is
: 759 0751 1 ! returned. If the node name is not found a zero length counted string
: 760 0752 1 ! is returned along with failure (NML$_STS_PTY).
: 761 0753 1
: 762 0754 1 ! SIDE EFFECTS:
: 763 0755 1
: 764 0756 1 ! Destroys contents of PRMBUFFER.
: 765 0757 1
: 766 0758 1 ! --
: 767 0759 1
: 768 0760 2 BEGIN
: 769 0761 2
: 770 0762 2 MAP
: 771 0763 2 addr : WORD,
: 772 0764 2 bufdsc : REF DESCRIPTOR;
: 773 0765 2
: 774 P 0766 2 $nfbdsc(nfbdsc, show, , ndi
: 775 P 0767 2 , tad, ! Search key 1 = Transformed Address, oper1 = eql
: 776 P 0768 2 , nfb$ wildcard, ! Search key 2 = wildcard, oper2 = eql
: 777 0769 2 , nna);
: 778 0770 2
: 779 0771 2 LOCAL
: 780 0772 2 p2dsc : VECTOR [2],
: 781 0773 2 nameptr,
: 782 0774 2 namesize : WORD,
: 783 0775 2 node_addr;
: 784 0776 2
: 785 0777 2 node_addr = .addr;
: 786 0778 2

```

```

: 787 0779 2 IF .addr EQL 0 THEN . If zero address then
: 788 0780 nml$getexeadr (node_addr); ! get the real executor address
: 789 0781 nml$bldp2(0, .node_addr, -1, 0, p2bfdsc, p2dsc);
: 790 0782
: 791 0783 IF nml$netqio ( nfbdsc,
: 792 0784 p2dsc,
: 793 0785 namesize,
: 794 0786 prmdsc) THEN
: 795 0787 BEGIN
: 796 0788 nameptr = .prmdsc [1];
: 797 0789 namesize = .(.nameptr)<0,16>;
: 798 0790 CHSMOVE (.namesize, CHSPTR (.nameptr,2), .bufdsc [dsc$a_pointer]);
: 799 0791 .reslen = .namesize;
: 800 0792 RETURN nml$_sts_suc
: 801 0793 END;
: 802 0794
: 803 0795 ! No node name found.
: 804 0796
: 805 0797 .reslen = 0;
: 806 0798
: 807 0799 RETURN nml$_sts_pty
: 808 0800
: 809 0801 1 END;

```

! End of NMLSGETVOLNDNAM

				.PSECT \$PLITS,NOWRT,NOEXE,2	
	0000001C	0002C	P.AAH:	.LONG 28	
	00000000	00030		.ADDRESS U.3	:
				.PSECT \$OWNS,NOEXE,2	
	22	001CC	:_NFB	.BYTE 34	
			U.3:	.BYTE 0	
	00	001CD		.BYTE 2	
	02	001CE		.BYTE 0	
	00	001CF		.LONG 33619984	
	02010010	001D0		.LONG 1	
	00000C01	001D4		.BYTE 0	
	00	001D8		.BYTE 0	
	00	001D9		.WORD 0	
	0000	001DA		.LONG 33685571	
	02020043	001DC		.LONG 0	
	00000000	001E0		.BLKB 4	
		001E4			
			U.4=	P.AAH	
				.PSECT \$CODE\$,NOWRT,2	
56	00000000	007C	00000	.ENTRY NMLSGETVOLNDNAM, Save R2,R3,R4,R5,R6	: 0723
5E		00	9E 00002	MOVAB P2BFDSC, R6	:
7E	04	0C	C2 00009	SUBL2 #12, SP	:
		AC	3C 0C00C	MOVZWL ADDR, NODE_ADDR	: 0777
		07	12 00010	BNEQ 1\$: 0779

FEDB	CF		5E	DD	00012	PUSHL	SP		0780
			01	FB	00014	CALLS	#1, NMLSGETEXEADR		
		08	AE	9F	00019	PUSHAB	P2DSC		0781
			56	DD	0001C	PUSHL	R6		
			7E	D4	0001E	CLRL	-(SP)		
	7E		01	CE	00020	MNEGL	#1, -(SP)		
		10	AE	DD	00023	PUSHL	NODE_ADDR		
			7E	D4	00026	CLRL	-(SP)		
FC64	CF		06	FB	00028	CALLS	#6, NMLSBLDP2		
		08	A6	9F	0002D	PUSHAB	PRMDSC		0783
		08	AE	9F	00030	PUSHAB	NAMESIZE		
		10	AE	9F	00033	PUSHAB	P2DSC		
		2C	A6	9F	00036	PUSHAB	NFB DSC		
00000000G	00		04	FB	00039	CALLS	#4, NMLSNETQIO		
	1C		50	E9	00040	BLBC	R0, 2\$		
	51	0C	A6	D0	00043	MOVL	PRMDSC+4, NAMEPTR		0788
04	AE		61	B0	0C047	MOVW	(NAMEPTR), NAMESIZE		0789
	50	08	AC	D0	0004B	MOVL	BUF DSC, R0		0790
04	A1	04	AE	28	0004F	MOV C3	NAMESIZE, 2(NAMEPTR), @4(R0)		
	BC	04	AE	3C	00056	MOVZWL	NAMESIZE, @RESLEN		0791
	50		01	D0	0005B	MOVL	#1, R0		0792
			04	0005E		RET			
		0C	BC	D4	0005F	CLRL	@RESLEN		0797
	50		0C	CE	00062	MNEGL	#12, R0		0799
			04	00065		RET			0801

; Routine Size: 102 bytes, Routine Base: \$CODE\$ + 036F

```

811 0802 1 %SBTTL 'NML$GETNODADR Get node address given the name'
812 0803 1 GLOBAL ROUTINE NML$GETNODADR (NAMLEN, NAMPTR, ADDR) =
813 0804 1
814 0805 1 |++
815 0806 1 | FUNCTIONAL DESCRIPTION:
816 0807 1 |
817 0808 1 |     This routine returns the node address that matches the
818 0809 1 |     specified name.
819 0810 1 |
820 0811 1 | FORMAL PARAMETERS:
821 0812 1 |
822 0813 1 |     ADDR          Address of word to contain node address.
823 0814 1 |
824 0815 1 | IMPLICIT INPUTS:
825 0816 1 |
826 0817 1 |     NML$GB_OPTIONS contains the command message options.
827 0818 1 |
828 0819 1 |     If this is a permanent data base operation then it is assumed
829 0820 1 |     that the node file is already open.
830 0821 1 |
831 0822 1 | IMPLICIT OUTPUTS:
832 0823 1 |
833 0824 1 |     NONE
834 0825 1 |
835 0826 1 | ROUTINE VALUE:
836 0827 1 | COMPLETION CODES:
837 0828 1 |
838 0829 1 |     If the node address is found then success (NML$_STS_SUC) is
839 0830 1 |     returned. If the node address is not found a zero address
840 0831 1 |     is returned along with failure (NML$_STS_PTY).
841 0832 1 |
842 0833 1 | SIDE EFFECTS:
843 0834 1 |
844 0835 1 |     Destroys contents of PRMBUFFER.
845 0836 1 |
846 0837 1 | --
847 0838 1 |
848 0839 2 BEGIN
849 0840 2
850 0841 2 MAP
851 0842 2     nml$gb_options : BBLOCK [1];
852 0843 2
853 P 0844 2 $nfbdsc(nfbdsc, show, , ndi
854 P 0845 2     ,nna,          ! Search key 1 = Node name, oper1 = eql
855 P 0846 2     ,nfb$c_wildcard,! Search key 2 = wildcard, oper2 = eql
856 0847 2     ,tad);
857 0848 2
858 0849 2 LOCAL
859 0850 2     fldadr,
860 0851 2     fldsize,
861 0852 2     p2dsc   : VECTOR [2],
862 0853 2     ptr,
863 0854 2     key     : WORD,
864 0855 2     temp,
865 0856 2     recdsc  : VECTOR [2];
866 0857 2
867 0858 2 IF .nml$gb_options [nma$v_opt_per] THEN

```

```

: 868 0859 3 BEGIN
: 869 0860 3
: 870 0861 3 | If the node permanent data base file isn't already open, open it.
: 871 0862 3 |
: 872 0863 3 nml$openfile (nma$c_opn_node, nma$c_opn_ac_ro);
: 873 0864 3 recdsc [1] = .prmdsc [1];
: 874 0865 3 IF nml$readrecord (nma$c_opn_node, | Node perm database ID
: 875 0866 3 UPLIT (nma$c_pcno_nna), | Use ISAM key = node name
: 876 0867 3 namlen, | ISAM key value dsc = node name
: 877 0868 3 prmdsc, | Read buffer descriptor
: 878 0869 3 recdsc, | Return data descriptor
: 879 0870 3 temp) THEN | Not used
: 880 0871 4 BEGIN
: 881 0872 4 fldadr = 0;
: 882 0873 4 IF nma$searchfld ( recdsc,
: 883 0874 4 nma$c_pcno_add,
: 884 0875 4 fldsize,
: 885 0876 4 fldadr) THEN
: 886 0877 5 BEGIN
: 887 0878 5 CH$MOVE (2, .fldadr, .addr);
: 888 0879 5 RETURN nml$_sts_suc
: 889 0880 4 END;
: 890 0881 4 END
: 891 0882 3 END
: 892 0883 2 ELSE
: 893 0884 2 IF nml$getvolndadr (.namlen, .namptr, .addr) THEN
: 894 0885 2 RETURN nml$_sts_suc;
: 895 0886 2 |
: 896 0887 2 | No node address found.
: 897 0888 2 |
: 898 0889 2 (.addr)<0,16> = 0;
: 899 0890 2
: 900 0891 2 RETURN nml$_sts_pty
: 901 0892 2
: 902 0893 1 END; | End of NML$GETNODADR

```

				.PSECT	\$PLITS,NOWRT,NOEXE,2	
0000001C	00034	P.AAI:	.LONG	28		:
00000000	00038		.ADDRESS	U.5		:
000001F4	0003C	P.AAJ:	.LONG	500		:
				.PSECT	\$OWNS,NOEXE,2	
22	001E8	: -NFB				
		U.5:	.BYTE	34		:
00	001E9		.BYTE	0		:
02	001EA		.BYTE	2		:
00	001EB		.BYTE	0		:
02020043	001EC		.LONG	33685571		:
00000001	001F0		.LONG	1		:
00	001F4		.BYTE	0		:
00	001F5		.BYTE	0		:
0000	001F6		.WORD	0		:
02010010	001F8		.LONG	33619984		:

		00000000	001FC	.LONG	0			
			00200	.BLKB	4			
				U.6=		P.AAI		
				.PSECT	\$CODE\$,NOWRT,2			
			0004 00000	.ENTRY	NML\$GETNODADR, Save R2			0803
52	00000000'	00	9E 00002	MOVAB	PRMDSC+4, R2			
5E		1C	C2 00009	SUBL2	#28, SP			
	00000000G	00	95 0000C	TSTB	NML\$GB_OPTIONS			0858
		49	18 00012	BGEQ	1\$			
		7E	7C 00014	CLRQ	-(SP)			0863
00000000G	00	02	FB 00016	CALLS	#2, NML\$OPENFILE			
10	AE	62	D0 0001D	MOVL	PRMDSC+4, RECDSC+4			0864
		5E	DD 00021	PUSHL	SP			0865
		10	AE 9F 00023	PUSHAB	RECDSC			
		FC	A2 9F 00026	PUSHAB	PRMDSC			
		04	AC 9F 00029	PUSHAB	NAMLEN			
		30	A2 9F 0002C	PUSHAB	P.AAJ			0866
		7E	D4 0002F	CLRL	-(SP)			0865
00000000G	00	06	FB 00031	CALLS	#6, NML\$READRECORD			
37		50	E9 00038	BLBC	R0, 3\$			
		04	AE D4 0003B	CLRL	FLDADR			0872
		04	AE 9F 0003E	PUSHAB	FLDADR			0873
		0C	AE 9F 00041	PUSHAB	FLDSIZE			
	7E	01F6	8F 3C 00044	MOVZWL	#502, -(SP)			
		18	AE 9F 00049	PUSHAB	RECDSC			
00000000G	00	04	FB 0004C	CALLS	#4, NML\$SEARCHFLD			
1C		50	E9 00053	BLBC	R0, 3\$			
0C	BC	04	BE B0 00056	MOVW	@FLDADR, @ADDR			0878
		11	11 0005B	BRB	2\$			0879
	7E	08	AC 7D 0005D	MOVQ	NAMPTR, -(SP)			0884
		04	AC DD 00061	PUSHL	NAMLEN			
00000000V	00	03	FB 00064	CALLS	#3, NML\$GETVOLNDADR			
04		50	E9 0006B	BLBC	R0, 3\$			
50		01	D0 0006E	MOVL	#1, R0			0885
		04	00071	RET				
	0C	BC	B4 00072	CLRW	@ADDR			0889
		0C	CE 00075	MNEGL	#12, R0			0891
	50	04	00078	RET				0893

; Routine Size: 121 bytes. Routine Base: \$CODE\$ + 03D5


```

904 0894 1 %SBTTL 'NML$GETVOLNDADR Get volatile node address given the name'
905 0895 1 GLOBAL ROUTINE NML$GETVOLNDADR (NAMLEN, NAMPTR, ADDR) =
906 0896 1
907 0897 1 !++
908 0898 1 FUNCTIONAL DESCRIPTION:
909 0899 1
910 0900 1 This routine returns the node address from the volatile data base
911 0901 1 that matches the specified name.
912 0902 1
913 0903 1 FORMAL PARAMETERS:
914 0904 1
915 0905 1 ADDR Address of word to contain node address.
916 0906 1
917 0907 1 IMPLICIT INPUTS:
918 0908 1
919 0909 1 NONE
920 0910 1
921 0911 1 IMPLICIT OUTPUTS:
922 0912 1
923 0913 1 NONE
924 0914 1
925 0915 1 ROUTINE VALUE:
926 0916 1 COMPLETION CODES:
927 0917 1
928 0918 1 If the node address is found then success (NML$_STS_SUC) is
929 0919 1 returned. If the node address is not found a zero address
930 0920 1 is returned along with failure (NML$_STS_PTY).
931 0921 1
932 0922 1 SIDE EFFECTS:
933 0923 1
934 0924 1 Destroys contents of PRMBUFFER.
935 0925 1
936 0926 1 --
937 0927 1
938 0928 2 BEGIN
939 0929 2
940 P 0930 2 $nfbdsc(nfbdsc, show, , ndi
941 P 0931 2 .nna, ! Search key 1 = node name, oper1 = eql
942 P 0932 2 .nfb$c_wildcard, ! Search key 2 = wildcard, oper2 = eql
943 0933 2 .tad);
944 0934 2
945 0935 2 LOCAL
946 0936 2 p2dsc : VECTOR [2],
947 0937 2 ptr;
948 0938 2
949 0939 2 nml$bldp2(.namlen, .namptr, -1, 0, p2bfdsc, p2dsc);
950 0940 2 IF nml$netqio ( nfbdsc,
951 0941 2 p2dsc,
952 0942 2 0,
953 0943 2 prmdsc) THEN
954 0944 2 BEGIN
955 0945 2 MAP
956 0946 2 ptr: REF BBLOCK,
957 0947 2 nml$gw_vol_exec_addr: BBLOCK;
958 0948 2
959 0949 2 ptr = .prmdsc [1];
960 0950 2 IF CH$RCHAR (nml$gb_ncp_version) LEQ 3 THEN

```

```

: 961      0951  4      BEGIN
: 962      0952  4      IF .ptr [nma$V_area] EQL .nml$gw_vol_exec_addr [nma$V_area] THEN
: 963      0953  4      ptr [nma$V_area] = 0;
: 964      0954  3      END;
: 965      0955  3      CH$MOVE (2, .ptr, .addr);
: 966      0956  3      RETURN nml$_sts_suc
: 967      0957  2      END;
: 968      0958  2
: 969      0959  2      |
: 970      0960  2      | No node address found.
: 971      0961  2      |
: 972      0962  2      | (.addr)<0,16> = 0;
: 973      0963  2      | RETURN nml$_sts_pty
: 974      0964  2
: 975      0965  1      END;

```

! End of NML\$GETNODADR

				.PSECT	\$PLITS\$,NOWRT,NOEXE,2	
	0000001C	00040	P.AAK:	.LONG	28	
	00000000	00044		.ADDRESS	U.7	:
				.PSECT	\$OWNS\$,NOEXE,2	
	22	00204	: NFB	.BYTE	34	
			U.7:	.BYTE	0	:
	00	00205		.BYTE	2	:
	02	00206		.BYTE	0	:
	00	00207		.LONG	33685571	:
	02020043	00208		.LONG	1	:
	00000001	0020C		.BYTE	0	:
	00	00210		.BYTE	0	:
	00	00211		.WORD	0	:
	0000	00212		.LONG	33619984	:
	02010010	00214		.LONG	0	:
	00000000	00218		.BLKB	4	:
		0021C				
			U.8=		P.AAK	
				.PSECT	\$CODE\$,NOWRT,2	
	52	00000000	0004 00000	.ENTRY	NML\$GETVOLNDADR, Save R2	: 0895
	5E		00 9E 00002	MOVAB	P2BFDSC, R2	
		4004	08 C2 00009	SUBL2	#8, SP	: 0939
			8F BB 0000C	PUSHR	#*M<R2,SP>	
	7E		7E D4 00010	CLRL	-(SP)	
	7E		01 CE 00012	MNEGL	#1, -(SP)	
	7E	04	AC 7D 00015	MOVQ	NAMLEN, -(SP)	
FB94	CF		06 FB 00019	CALLS	#6, NML\$BLDP2	
			08 A2 9F 0001E	PUSHAB	PRMDSC	: 0940
			7E D4 00021	CLRL	-(SP)	
			08 AE 9F 00023	PUSHAB	P2DSC	
			40 A2 9F 00026	PUSHAB	NFBDSC	
	00000000G	00	04 FB 00029	CALLS	#4, NML\$NETQIO	

	2A		50	E9	00030	BLBC	R0, 2\$:	
	50	OC	A2	D0	00033	MOVL	PRMDSC+4, PTR	:	0949
	03	00000000G	00	91	00037	CMPB	NML\$GB_NCP_VERSION, #3	:	0950
			15	1A	0003E	BGTRU	1\$:	
51	00000000'	00	06	02	EF 00040	EXTZV	#2, #6, NML\$GW_VOL_EXEC_ADDR+1, R1	:	0952
51		60	06	0A	ED 00049	CMPZV	#10, #6, (PTR), R1	:	
			05	12	0004E	BNEQ	1\$:	
	01	A0	FC	8F	8A 00050	BICB2	#252, 1(PTR)	:	0953
	OC	BC		60	B0 00055	MOVW	(PTR), @ADDR	:	0955
		50		01	D0 00059	MOVL	#1, R0	:	0956
				04	0005C	RET		:	
		OC	BC	B4	0005D	CLRW	@ADDR	:	0962
	50		OC	CE	00060	MNEGL	#12, R0	:	0963
			04	00063	RET			:	0965

; Routine Size: 100 bytes, Routine Base: \$CODE\$ + 044E

```

: 977 0966 1 %SBTTL 'NML$GETEXEID Get executor node id'
: 978 0967 1 GLOBAL ROUTINE NML$GETEXEID (BUFDSC, RESLEN) =
: 979 0968 1
: 980 0969 1 !++
: 981 0970 1 FUNCTIONAL DESCRIPTION:
: 982 0971 1
: 983 0972 1 This routine returns the executor node address followed by
: 984 0973 1 the node name.
: 985 0974 1
: 986 0975 1 FORMAL PARAMETERS:
: 987 0976 1
: 988 0977 1 BUFDC Address of descriptor of buffer to contain ASCII
: 989 0978 1 node name.
: 990 0979 1 RESLEN Resulting length of node name string.
: 991 0980 1
: 992 0981 1 IMPLICIT INPUTS:
: 993 0982 1
: 994 0983 1 If this is a permanent data base operation then it is assumed
: 995 0984 1 that the executor and node files are already open.
: 996 0985 1
: 997 0986 1 IMPLICIT OUTPUTS:
: 998 0987 1
: 999 0988 1 NONE
: 1000 0989 1
: 1001 0990 1 ROUTINE VALUE:
: 1002 0991 1 COMPLETION CODES:
: 1003 0992 1
: 1004 0993 1 If the executor node name is found then success (NML$STS_SUC) is
: 1005 0994 1 returned. If the node name is not found a zero length counted string
: 1006 0995 1 is returned along with failure (NML$_STS_PTY).
: 1007 0996 1
: 1008 0997 1 SIDE EFFECTS:
: 1009 0998 1
: 1010 0999 1 NONE
: 1011 1000 1
: 1012 1001 1 --
: 1013 1002 1
: 1014 1003 2 BEGIN
: 1015 1004 2
: 1016 1005 2 MAP
: 1017 1006 2 bufdsc : REF DESCRIPTOR;
: 1018 1007 2
: 1019 1008 2 LOCAL
: 1020 1009 2 addr : WORD,
: 1021 1010 2 nambuf : VECTOR [6, BYTE],
: 1022 1011 2 namdsc : VECTOR [2],
: 1023 1012 2 namlen,
: 1024 1013 2 ptr;
: 1025 1014 2
: 1026 1015 2 ptr = ch$ptr (.bufdsc [dsc$a_pointer]);
: 1027 1016 2
: 1028 1017 2 nml$getexeadr (addr); ! Get address
: 1029 1018 2
: 1030 1019 2 namdsc [0] = 6;
: 1031 1020 2 namdsc [1] = nambuf;
: 1032 1021 2
: 1033 1022 2 nml$getexenam (namdsc, namlen); ! Get name

```

```

: 1034      1023 2
: 1035      1024 2 ch$wchar_a (.(addr)<0,8>, ptr);
: 1036      1025 2 ch$wchar_a (.(addr)<8,8>, ptr);
: 1037      1026 2 CH$WCHAR_A (.namlen OR nma$ment_exe, ptr);
: 1038      1027 2 ptr = CH$MOVE (.namlen, .namdsc [1], .ptr);
: 1039      1028 2 .reslen = .ptr - .bufdsc [dsc$a_pointer];
: 1040      1029 2
: 1041      1030 2 RETURN nml$_sts_suc
: 1042      1031 2
: 1043      1032 1 END;
! End of NMLSGETEXEID

```

				007C 0000	.ENTRY	NMLSGETEXEID, Save R2,R3,R4,R5,R6	: 0967
		SE		18 C2 00002	SUBL2	#24, SP	
		56	04	AC D0 00005	MOVL	BUFDSC, R6	: 1015
		53	04	A6 D0 00009	MOVL	4(R6), PTR	
				5E DD 0000D	PUSHL	SP	: 1017
	FD9D	CF		01 FB 0000F	CALLS	#1, NMLSGETEXEADR	
	08	AE		06 D0 00014	MOVL	#6, NAMDSC	: 1019
	0C	AE	10	AE 9E 00018	MOVAB	NAMBUF, NAMDSC+4	: 1020
			04	AE 9F 0001D	PUSHAB	NAMLEN	: 1022
			0C	AE 9F 00020	PUSHAB	NAMDSC	
	FDBE	CF		02 FB 00023	CALLS	#2, NMLSGETEXENAM	
		83		6E B0 00028	MOVW	ADDR, (PTR)+	: 1024
		04	80	8F 89 0002B	BISB3	#128, NAMLEN, (PTR)+	: 1026
		0C	04	AE 28 00031	MOVCS	NAMLEN, @NAMDSC+4, (PTR)	: 1027
08	BC	53	04	A6 C3 00037	SUBL3	4(R6), PTR, @RESLEN	: 1028
		50		01 D0 0003D	MOVL	#1, R0	: 1030
				04 00040	RET		: 1032

: Routine Size: 65 bytes, Routine Base: \$CODES + 04B2

```

: 1045 1033 1 %SBTTL 'NMLSGETINFABS Get NFB and information table'
: 1046 1034 1 GLOBAL ROUTINE NMLSGETINFABS (ENT, INF, NFBDESC, TABDESC, COPY) =
: 1047 1035 1
: 1048 1036 1 ++
: 1049 1037 1 FUNCTIONAL DESCRIPTION:
: 1050 1038 1
: 1051 1039 1 This routine returns the NFB descriptor address and the corresponding
: 1052 1040 1 table address based on the internal entity type and the information
: 1053 1041 1 type specified in the NCP SHOW command message.
: 1054 1042 1
: 1055 1043 1 FORMAL PARAMETERS:
: 1056 1044 1
: 1057 1045 1 ENT Internal entity type code.
: 1058 1046 1 INF Internal information type code.
: 1059 1047 1 NFBDESC Address of longword to get NFB descriptor address.
: 1060 1048 1 TABDESC Address of longword to get table descriptor address.
: 1061 1049 1 COPY (Temporary parameter) If 1, copy the NFB to the
: 1062 1050 1 buffer specified by NFBDESC, and fill in NFBDESC length.
: 1063 1051 1
: 1064 1052 1 ROUTINE VALUE:
: 1065 1053 1 COMPLETION CODES:
: 1066 1054 1
: 1067 1055 1 If the descriptors are found for the specified entity and information
: 1068 1056 1 type then success (NMLS_STS_SUC) is returned. If the information type
: 1069 1057 1 is invalid for the entity then an error message (NMLS_STS_FUN) is
: 1070 1058 1 signalled.
: 1071 1059 1
: 1072 1060 1 SIDE EFFECTS:
: 1073 1061 1
: 1074 1062 1 NONE
: 1075 1063 1
: 1076 1064 1 --
: 1077 1065 1
: 1078 1066 2 BEGIN
: 1079 1067 2
: 1080 1068 2 LOCAL
: 1081 1069 2 single_ent_nfbdesc : REF DESCRIPTOR,
: 1082 1070 2 enttab : REF BBLOCKVECTOR [, 8]; ! Address of entity table
: 1083 1071 2
: 1084 1072 2 enttab = .nml$al_entinfstab [.ent];
: 1085 1073 2
: 1086 1074 2 Return address of table used to format the NICE response message for
: 1087 1075 2 this entity.
: 1088 1076 2
: 1089 1077 2 .tabdesc = .enttab [.inf, 4,0,32,0];
: 1090 1078 2
: 1091 1079 2
: 1092 1080 2 Return the canned NFB and NFB descriptor for getting the SHOW info
: 1093 1081 2 from NETACP.
: 1094 1082 2
: 1095 1083 2 IF NOT .copy THEN
: 1096 1084 2 BEGIN
: 1097 1085 2 .nfbdesc = .enttab [.inf, 0,0,32,0];
: 1098 1086 2
: 1099 1087 2 IF ..nfbdesc EQLA 0
: 1100 1088 2 THEN
: 1101 1089 2 nml$error_1 (nma$c_sts_fun);

```

```

: 1102      1090      3      END
: 1103      1091      2      ELSE
: 1104      1092      2
: 1105      1093      2
: 1106      1094      2      For the new QIO interface, each plural entity show should
: 1107      1095      2      be modified to use the following path. When I get around to it.
: 1108      1096      2      For plural entity SHOWs, copy the single entity NFB to local
: 1109      1097      2      storage in the calling routine, where it will be modified to
: 1110      1098      2      issue a plural entity SHOW.
: 1111      1099      2      BEGIN
: 1112      1100      2
: 1113      1101      2      MAP
: 1114      1102      2      nfbdsc : REF DESCRIPTOR;
: 1115      1103      2
: 1116      1104      2      single_ent_nfbdsc = .enttab [.inf, 0,0,32,0];
: 1117      1105      2      IF .single_ent_nfbdsc EQLA 0 THEN
: 1118      1106      2      nm$error_1 (nma$cs_sts_fun);
: 1119      1107      2      .nfbdsc = .single_ent_nfbdsc;           ! Set up NFB length.
: 1120      1108      2      CHSMOVE (.single_ent_nfbdsc [dsc$w_length],
: 1121      1109      2      .single_ent_nfbdsc [dsc$a_pointer],
: 1122      1110      2      .nfbdsc [dsc$a_pointer]);
: 1123      1111      2      END;
: 1124      1112      2
: 1125      1113      2      RETURN nml$sts_suc
: 1126      1114      2
: 1127      1115      2      ! End of NML$GETINFABS

```

			007C 00000	.ENTRY	NML\$GETINFABS, Save R2,R3,R4,R5,R6	: 1034
	56	00000000G	00 9E 00002	MOVAB	NML\$ERROR_1, R6	: 1072
	50	04 AC	DO 00009	MOVL	ENT, R0	: 1077
	51	00000000G0040	DO 0000D	MOVL	NML\$AL_ENTINFABS[R0], ENTAB	: 1085
	50	08 AC	DO 00015	MOVL	INF, R0	: 1087
	50	6140 7F	00019	MOVAQ	(ENTAB)[R0], R0	: 1089
10	BC	04 A0	DO 0001D	MOVL	4(R0), @TABDSC	: 1083
	53	0C AC	DO 00022	MOVL	NFBDC, R3	: 1085
	0D	14 AC	E8 00026	BLBS	COPY, 1\$: 1087
	63	60 DO	0002A	MOVL	(R0), (R3)	: 1089
		1C 12	0002D	BNEQ	3\$: 1083
	7E	01 CE	0002F	MNEGL	#1, -(SP)	: 1104
	66	01 FB	00032	CALLS	#1, NML\$ERROR_1	: 1105
		14 11	00035	BRB	3\$: 1106
	52	60 DO	00037 1\$:	MOVL	(R0), SINGLE_ENT_NFBDC	: 1107
		06 12	0003A	BNEQ	2\$: 1110
	7E	01 CE	0003C	MNEGL	#1, -(SP)	: 1113
	66	01 FB	0003F	CALLS	#1, NML\$ERROR_1	: 1115
	63	62 DO	00042 2\$:	MOVL	(SINGLE_ENT_NFBDC), (R3)	: 1107
	04 B3	04 B2	62 28 00045	MOVCB	(SINGLE_ENT_NFBDC), -	: 1110
		50	01 DO 0004B 3\$:	MOVL	@4(SINGLE_ENT_NFBDC), @4(R3)	: 1113
			04 0004E	RET		: 1115

: Routine Size: 79 bytes, Routine Base: \$CODE\$ + 04F3

NMLSUTILITY
V04-000

NML Utility routines
NMLSGETINFABS Get NFB and information table

L 13
16-Sep-1984 00:38:11
14-Sep-1984 12:50:22

VAX-11 Bliss-32 V4.0-742
DISK\$VMMASTER:[NML.SRC]NMLUTIL.B32;1 Page 38
(13)

NML
V04


```

: 1129 1116 1 %SBTTL 'NMLS$FIX NODE NUM Fix node address parameter (action routine)'
: 1130 1117 1 GLOBAL ROUTINE NMLS$FIX_NODE_NUM (NODE_ADDR) =
: 1131 1118 1
: 1132 1119 1 |++
: 1133 1120 1 | FUNCTIONAL DESCRIPTION:
: 1134 1121 1 |
: 1135 1122 1 |     This is an NPARSE action that checks the node address.  If the area
: 1136 1123 1 |     number is 0 it can be one of two cases:
: 1137 1124 1 |     The NCP is a Phase IV NCP, and user did not specify an area
: 1138 1125 1 |     number in the NCP command.  In this case, assume the user
: 1139 1126 1 |     means area 1 (since 0 is an invalid area number).
: 1140 1127 1 |
: 1141 1128 1 |     the NCP is a Phase III NCP and therefore doesn't understand
: 1142 1129 1 |     area numbers.  In this case, assume the user means the
: 1143 1130 1 |     executor node's area.
: 1144 1131 1 |
: 1145 1132 1 | FORMAL PARAMETERS:
: 1146 1133 1 |     NODE_ADDR      Address of Node address to fix.
: 1147 1134 1 |
: 1148 1135 1 | IMPLICIT INPUTS:
: 1149 1136 1 |     None
: 1150 1137 1 |
: 1151 1138 1 | IMPLICIT OUTPUTS:
: 1152 1139 1 |     None
: 1153 1140 1 |
: 1154 1141 1 | --
: 1155 1142 1 |
: 1156 1143 2 BEGIN
: 1157 1144 2
: 1158 1145 2 MAP
: 1159 1146 2     node_addr      : REF BBLOCK [2],
: 1160 1147 2     nml$gb_options : BBLOCK [1];
: 1161 1148 2
: 1162 1149 2 LOCAL
: 1163 1150 2     exec_addr      : BBLOCK [2];
: 1164 1151 2
: 1165 1152 2 |
: 1166 1153 2 | If the node address is 0, then it's the executor, so leave it that way.
: 1167 1154 2 | If the area number of the address is 0, then change it.
: 1168 1155 2 |
: 1169 1156 2 IF .node_addr [nma$v_addr] NEQ 0 AND
: 1170 1157 2     .node_addr [nma$v_area] EQL 0 THEN
: 1171 1158 2     BEGIN
: 1172 1159 2     |
: 1173 1160 2     | Get the executor address from the volatile database if the NICE command
: 1174 1161 2     | is a volatile database command and from the permanent database if the
: 1175 1162 2     | NICE command is a permanent database command.  Use the executor's area
: 1176 1163 2     | number for the node address supplied.
: 1177 1164 2     |
: 1178 1165 2     | nml$getexeadr (exec_addr);
: 1179 1166 2     | node_addr [nma$v_area] = .exec_addr [nma$v_area];
: 1180 1167 2     END;
: 1181 1168 2 RETURN nml$_sts_suc
: 1182 1169 2
: 1183 1170 1 END;

```

! End of NMLS\$FIX_NODE_NUM

					0004 00000	.ENTRY	NML\$FIX_NODE_NUM, Save R2	:	1117
					04 C2 00002	SUBL2	#4, SP	:	
			04		AC D0 00005	MOVL	NODE_ADDR, R2	:	1156
	03FF				62 B3 00009	BITW	(R2), #1023	:	
					19 13 0000E	BEQL	1\$:	
	FC		01		A2 93 00010	BITB	1(R2), #252	:	1157
					12 12 00015	BNEQ	1\$:	
					5E DD 00017	PUSHL	SP	:	1165
	FD03				01 FB 00019	CALLS	#1, NML\$GETEXEADR	:	
50		01	AE		02 EF 0001E	EXTZV	#2, #6, EXEC_ADDR+1, R0	:	1166
62			06		50 F0 00024	INSV	R0, #10, #6, -(R2)	:	
			0A		01 D0 00029	MOVL	#1, R0	:	1168
			50		04 0002C	RET		:	1170

: Routine Size: 45 bytes, Routine Base: \$CODE\$ + 0542

: 1185 1171 1 END
: 1186 1172 1
: 1187 1173 0 ELUDOM

.EXTRN LIB\$SIGNAL

PSECT SUMMARY

Name	Bytes	Attributes
\$GLOBALS	52	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$OWNS	544	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$SPLITS	72	NOVEC, NOWRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$CODES	1391	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	35	10	27	00:00.1
_\$255\$DUA28:[SHRLIB]NMLIBRY.L32;1	887	10	1	47	00:00.2
_\$255\$DUA28:[SHRLIB]NET.L32;1	1279	10	0	63	00:00.3
_\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	2	0	581	00:03.2

COMMAND QUALIFIERS

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

: Size: 1391 code + 668 data bytes
: Run Time: 00:30.9
: Elapsed Time: 01:19.5
: Lines/CPU Min: 2279
: Lexemes/CPU-Min: 15379
: Memory Used: 154 pages
: Compilation Complete

