


```

FFFFFFFFF 000000 RRRRRRRR UU UU DDDDDDDD FFFFFFFFFF RRRRRRRR NN NN
FFFFFFFFF 000000 RRRRRRRR UU UU DDDDDDDD FFFFFFFFFF RRRRRRRR NN NN
FF 00 00 RR RR UU UU DD DD FF RR RR NN NN
FF 00 00 RR RR UU UU DD DD FF RR RR NN NN
FF 00 00 RR RR UU UU DD DD FF RR RR NN NN
FFFFFFFF 00 00 RRRRRRRR UU UU DD DD FF FFFFFF RRRRRRRR NN NN
FFFFFFFF 00 00 RRRRRRRR UU UU DD DD FFFFFFFF RRRRRRRR NN NN
FF 00 00 RR RR UU UU DD DD FF RR RR NN NNNN
FF 00 00 RR RR UU UU DD DD FF RR RR NN NNNN
FF 00 00 RR RR UU UU DD DD FF RR RR NN NN
FF 00 00 RR RR UU UU DD DD FF RR RR NN NN
FF 000000 RR RR UUUUUUUUU DDDDDDDD FF RR RR NN NN
FF 000000 RR RR UUUUUUUUU DDDDDDDD FF RR RR NN NN

```

```

LL 111111 SSSSSSSS
LL 111111 SSSSSSSS
LL 11 SS
LL 11 SS
LL 11 SS
LL 11 SS
LL 11 SSSSSS
LL 11 SSSSSS
LL 11 SS
LL 11 SS
LL 11 SS
LL 11 SS
LLLLLLLLLL 111111 SSSSSSSS
LLLLLLLLLL 111111 SSSSSSSS

```

```

1 0001 0 MODULE FOR$$UDF_RN (%TITLE 'NAMELIST input UDF level'
2 0002 0 -IDENT = '1-005' ! File: FORUDFRN.B32 Edit: SBL1005
3 0003 0 ) =
4 0004 1 BEGIN
5 0005 1
6 0006 1 *****
7 0007 1 *
8 0008 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY *
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26 0026 1 *
27 0027 1 *****
28 0028 1
29 0029 1
30 0030 1 **
31 0031 1 FACILITY: FORTRAN Language Support
32 0032 1
33 0033 1 ABSTRACT:
34 0034 1
35 0035 1 This module contains the User Data Formatter level code for
36 0036 1 FORTRAN NAMELIST input.
37 0037 1
38 0038 1 ENVIRONMENT: Runs at any access mode - AST reentrant
39 0039 1
40 0040 1 AUTHOR: Steven B. Lionel, CREATION DATE: 11-July-1980
41 0041 1
42 0042 1 MODIFIED BY:
43 0043 1
44 0044 1 1-001 - Original. SBL 11-July-1980
45 0045 1 1-002 - Correct call for syntax error. Remove declaration of CALLG, not used. SBL 18-Nov-1980
46 0046 1 1-003 - Add diagram of NAMELIST descriptor block. SBL 15-April-1981
47 0047 1 *** First post-V3.0 edit ***
48 0048 1 1-004 - Add query feature. Use prologue file. SBL 10-Jan-1983
49 0049 1 1-005 - Allow group name to end with <TAB>. SPR 11-57564 SBL 2-Jun-1983
50 0050 1 --
51 0051 1

```

```
53 0052 1 %SBTTL 'Declarations'
54 0053 1
55 0054 1 : PROLOGUE FILE:
56 0055 1 :
57 0056 1
58 0057 1 REQUIRE 'RTLIN:FORPROLOG'; . FOR$ definitions
59 0123 1
60 0124 1
61 0125 1 : TABLE OF CONTENTS:
62 0126 1 :
63 0127 1
64 0128 1 FORWARD ROUTINE
65 0129 1     FOR$$UDF_RNO : JSB_UDF0 NOVALUE, ! Start NAMELIST processing
66 0130 1     PROCESS_LIST : CALL_CCB NOVALUE, ! Do bulk of NAMELIST processing
67 0131 1     FOR$$UDF_RN9 : JSB_UDF9 NOVALUE; ! End NAMELIST processing
68 0132 1
69 0133 1 :
70 0134 1 : INCLUDE FILES:
71 0135 1 :
72 0136 1
73 0137 1 LIBRARY 'RTLTPAMAC'; ! TPARSE macro definitions
74 0138 1
75 0139 1 :
76 0140 1 : MACROS:
77 0141 1 :
78 0142 1 :     NONE
79 0143 1 :
80 0144 1 : EQUATED SYMBOLS:
81 0145 1 :
82 0146 1 :     NONE
83 0147 1 :
84 0148 1 : OWN STORAGE:
85 0149 1 :
86 0150 1 :     NONE
87 0151 1 :
88 0152 1 : EXTERNAL REFERENCES:
89 0153 1 :
90 0154 1 :
91 0155 1 EXTERNAL ROUTINE
92 0156 1     FOR$$DO_NML_OUTPUT: CALL_CCB NOVALUE, ! Do NAMELIST output
93 0157 1     FOR$$REC_RSNO : JSB_RECO NOVALUE, ! Read a record
94 0158 1     FOR$$REC_WSNO : JSB_RECO NOVALUE, ! Start a write
95 0159 1     FOR$$SIGNAL_STO: NOVALUE,
96 0160 1     LIB$TPARSE; ! Parse input records
97 0161 1
98 0162 1 EXTERNAL
99 0163 1     FOR$$A_NMLSTATE, ! TPARSE state tables
100 0164 1     FOR$$A_NMLKEYWD; ! TPARSE keyword block
101 0165 1
```

```
103 0166 1 %SBTTL 'FOR$$UDF_RNO - NAMELIST input UDF level'  
104 0167 1 GLOBAL ROUTINE FOR$$UDF_RNO: JSB_UDFO NOVALUE ! NAMELIST input initialization  
105 0168 1 =  
106 0169 1  
107 0170 1 !++  
108 0171 1 FUNCTIONAL DESCRIPTION:  
109 0172 1  
110 0173 1 Initialize NAMELIST input.  
111 0174 1  
112 0175 1 CALLING SEQUENCE:  
113 0176 1  
114 0177 1 JSB FOR$$UDF_RNO  
115 0178 1  
116 0179 1 FORMAL PARAMETERS:  
117 0180 1  
118 0181 1 NONE  
119 0182 1  
120 0183 1 IMPLICIT INPUTS:  
121 0184 1  
122 0185 1 CCB Pointer to current logical unit block  
123 0186 1  
124 0187 1 IMPLICIT OUTPUTS:  
125 0188 1  
126 0189 1 NONE  
127 0190 1  
128 0191 1 COMPLETION STATUS:  
129 0192 1  
130 0193 1 NONE  
131 0194 1  
132 0195 1 SIDE EFFECTS:  
133 0196 1  
134 0197 1 See PROCESS_LIST.  
135 0198 1  
136 0199 1 --  
137 0200 1  
138 0201 2 BEGIN  
139 0202 2  
140 0203 2 EXTERNAL REGISTER  
141 0204 2 CCB : REF $FOR$CCB_DECL;  
142 0205 2  
143 0206 2 !+  
144 0207 2 ! Call PROCESS_LIST to do all the NAMELIST processing. Note that  
145 0208 2 ! this is done from the initialization call since there are no element  
146 0209 2 ! transmit calls for NAMELIST.  
147 0210 2 !-  
148 0211 2  
149 0212 2 PROCESS_LIST ();  
150 0213 2  
151 0214 2 RETURN;  
152 0215 1 END; ! End of routine FOR$$UDF_RNO
```

```
.TITLE FOR$$UDF_RN NAMELIST input UDF level  
.IDENT \1-005\  
  
.EXTRN FOR$$DO_NML_OUTPUT  
.EXTRN FOR$$REC_RSNO, FOR$$REC_WSNO
```

FOR\$\$UDF_RN
1-005

NAMELIST input UDF level
FOR\$\$UDF_RNO - NAMELIST input UDF level

L 9
16-Sep-1984 00:49:15
14-Sep-1984 12:32:51

VAX-11 Bliss-32 V4.0-742
[FORRTL.SRC]FORUDFRN.B32;1

Page 4
(3)

FOR
1-C

.EXTRN FOR\$\$SIGNAL_STO
.EXTRN LIB\$TPARSE, FOR\$\$A_NMLSTATE
.EXTRN FOR\$\$A_NMLKEYWD
.PSECT _FOR\$CODE, NOWRT, SHR, PIC, 2

0000V CF 00 FB 0000 FOR\$\$UDF_RNO::
05 00005 CALLS #0, PROCESS_LIST
RSB

: 0212
: 0215

: Routine Size: 6 bytes, Routine Base: _FOR\$CODE + 0000

: 153 0216 1 !<BLF/PAGE>

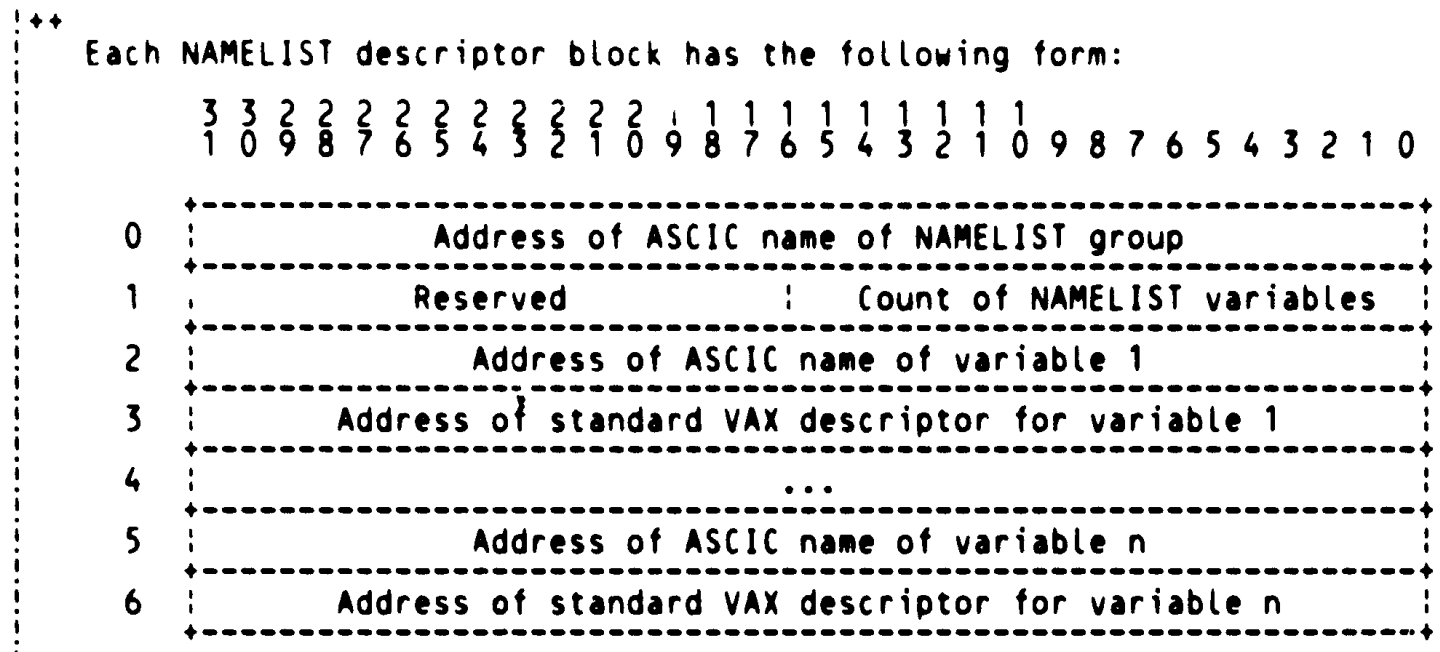
.....

```
155 0217 1 %SBTTL 'PROCESS_LIST - Process NAMLIST input'
156 0218 1 ROUTINE PROCESS_LIST ! Process NAMLIST input
157 0219 1 : CALL_CCB NOVALUE =
158 0220 1
159 0221 1 +-+
160 0222 1 FUNCTIONAL DESCRIPTION:
161 0223 1
162 0224 1 Process NAMLIST input. Read records from the current unit until a
163 0225 1 NAMLIST group with the specified name is found. Process NAMLIST
164 0226 1 assignments to user variables until the group end is found.
165 0227 1
166 0228 1 CALLING SEQUENCE:
167 0229 1
168 0230 1 CALL PROCESS_LIST
169 0231 1
170 0232 1 FORMAL PARAMETERS:
171 0233 1
172 0234 1 NONE
173 0235 1
174 0236 1 IMPLICIT INPUTS:
175 0237 1
176 0238 1 CCB Pointer to current logical unit block
177 0239 1 ISB$A_FMT_BEG Pointer to NAMLIST descriptor block
178 0240 1
179 0241 1 IMPLICIT OUTPUTS:
180 0242 1
181 0243 1 NONE
182 0244 1
183 0245 1 COMPLETION STATUS:
184 0246 1
185 0247 1 NONE
186 0248 1
187 0249 1 SIDE EFFECTS:
188 0250 1
189 0251 1 Reads one or more records from the input file. Performs zero or more
190 0252 1 user variable assignments.
191 0253 1
192 0254 1 --
193 0255 1
194 0256 1 !<BLF/PAGE>
```

```

196 0257 1
197 0258 1
198 0259 1
199 0260 1
200 0261 1
201 0262 1
202 0263 1
203 0264 1
204 0265 1
205 0266 1
206 0267 1
207 0268 1
208 0269 1
209 0270 1
210 0271 1
211 0272 1
212 0273 1
213 0274 1
214 0275 1
215 0276 1
216 0277 1
217 0278 1
218 0279 1
219 0280 1
220 0281 1
221 0282 1
222 0283 1
223 0284 1
224 0285 1
225 0286 1
226 0287 1
227 0288 1
228 0289 1
229 0290 1
230 0291 1
231 0292 1
232 0293 1
233 0294 1
234 0295 1

```



The NAMELIST group name and the variable names which are pointed to in the NAMELIST descriptor block are upper case only. The FORTRAN compiler or other calling program is responsible for case conversion of the name strings. In NAMELIST input data, case is significant only in character literals. The run-time library is responsible for case conversion of NAMELIST input data.

The allowable data types in variable descriptors are BU (BYTE), WU, LU, W, L, F, D, G, H, T, FC, DC, and GC. The allowable descriptor classes are scalar and array. For the array class descriptor, the descriptor flags COLUMN, COEFF, and BOUNDS must be set, indicating column-major order and the presence of coefficient and bounds blocks. The number of dimensions must not exceed 7.

```

--
!<BLF/PAGE>

```



```
236 0296 2 BEGIN
237 0297 2
238 0298 2 EXTERNAL REGISTER
239 0299 2 CCB : REF $FOR$CCB_DECL;
240 0300 2
241 0301 2 LOCAL
242 0302 2 PARAM_BLOCK : BLOCK [NML$K_BLKLENGTH, BYTE] FIELD (NML$FIELDS);
243 0303 2
244 0304 2 !+
245 0305 2 ! Fill in basic fields of TPARSE parameter block
246 0306 2 !-
247 0307 2
248 0308 2 CHSFILL (0, NML$K_BLKLENGTH, PARAM_BLOCK); ! Fill with zeroes
249 0309 2 PARAM_BLOCK [TPAS$COUNT] = TPAS$COUNT;
250 0310 2 PARAM_BLOCK [NML$A_LISTBLOCK] = .CCB [ISB$A_FMT_BEG]; ! NAMELIST block address
251 0311 2 PARAM_BLOCK [NML$A_CCB] = .CCB; ! CCB address
252 0312 2
253 0313 2 !+
254 0314 2 ! Find name of NAMELIST group and read records until it is found.
255 0315 2 !-
256 0316 2
257 0317 3 BEGIN
258 0318 3 LOCAL
259 0319 3 GROUP_NAME: REF VECTOR [, BYTE],
260 0320 3 RECORD_ADR: REF VECTOR [, BYTE];
261 0321 3
262 0322 3 GROUP_NAME = ..PARAM_BLOCK [NML$A_LISTBLOCK];
263 0323 3 WHILE 1 DO
264 0324 4 BEGIN
265 0325 4
266 0326 4 BUILTIN
267 0327 4 LOCC;
268 0328 4
269 0329 4 !+
270 0330 4 ! Read a record and see if it has the right group name.
271 0331 4 ! STRING will be the remainder of the line if the search succeeds.
272 0332 4 !-
273 0333 4
274 0334 4 FOR$$REC RSNO (); ! Get next record
275 0335 4 RECORD_ADR = .CCB [LUB$A_BUF_PTR]; ! Record buffer address
276 0336 4
277 0337 4 !+
278 0338 4 ! Trim comment, if any, from record.
279 0339 4 !-
280 0340 4
281 0341 4 LOCC (%REF(%C'!'), %REF(.CCB [LUB$A_BUF_END] - .RECORD_ADR)),
282 0342 4 RECORD_ADR [0];, CCB [LUB$A_BUF_END]);
283 0343 4
284 0344 4 IF RECORD_ADR [2] LSSA .CCB [LUB$A_BUF_END] ! Group name possible?
285 0345 4 THEN
286 0346 5 BEGIN
287 0347 5 IF .RECORD_ADR [1] EQLU %C'S' OR .RECORD_ADR [1] EQLU %C'&'
288 0348 5 THEN
289 0349 6 BEGIN
290 0350 6 LOCAL
291 0351 6 STRING_PTR,
292 0352 6 GROUPNAME_LEN;
```

```
293 0353 6 GROUPNAME_LEN = .GROUP_NAME [0];
294 0354 6 RECORD_ADR = RECORD_ADR [1]; ! Start with second char
295 0355 6
296 0356 6 !+
297 0357 6 ! Set up STRINGPTR to be the remainder of the record after
298 0358 6 ! the first blank or tab, if any.
299 0359 6 !-
300 0360 6 STRING_PTR = RECORD_ADR [1];
301 0361 6 WHILE T.STRING_PTR [SSA .CCB [LUB$A_BUF_END]] DO
302 0362 7 BEGIN
303 0363 7 LITERAL
304 0364 7 K_TAB = 9; ! <TAB> character
305 0365 7 IF CHRCHAR (.STRING_PTR) EQLU %C' ' OR
306 0366 7 CHRCHAR (.STRING_PTR) EQLU K_TAB
307 0367 7 THEN
308 0368 7 EXITLOOP;
309 0369 7 STRING_PTR = .STRING_PTR + 1;
310 0370 6 END;
311 0371 6
312 0372 6 PARAM_BLOCK [TPA$L_STRINGPTR] = .STRING_PTR;
313 0373 6 PARAM_BLOCK [TPA$L_STRINGCNT] = .CCB [LOB$A_BUF_END] -
314 0374 6 .STRING_PTR;
315 0375 6
316 0376 6 !+
317 0377 6 ! Compare the group name with the string after the $ or &
318 0378 6 !-
319 0379 6
320 0380 7 IF .GROUPNAME_LEN EQL ((.PARAM_BLOCK [TPA$L_STRINGPTR] - .RECORD_ADR) - 1)
321 0381 7 THEN IF (INCR POS FROM 1 TO .GROUPNAME_LEN DO
322 0382 8 BEGIN
323 0383 8 IF .GROUP_NAME [.POS] NEQ
324 0384 9 (
325 0385 9 IF (.RECORD_ADR [.POS] GEQ %C'a') AND
326 0386 10 (.RECORD_ADR [.POS] LEQ %C'z')
327 0387 9 THEN
328 0388 10 .RECORD_ADR [.POS] - (%C'a' - %C'A')
329 0389 9 ELSE
330 0390 9 .RECORD_ADR [.POS]
331 0391 9 )
332 0392 8 THEN
333 0393 8 EXITLOOP 0; ! Mismatch found
334 0394 6 END) NEQ 0
335 0395 6 THEN
336 0396 6 EXITLOOP; ! Match found
337 0397 5 END;
338 0398 4 END;
339 0399 4
340 0400 4 !+
341 0401 4 ! Group name not found. See if the first non-blank is a '?',
342 0402 4 ! in which case we'll display the group we're looking for.
343 0403 4 !-
344 0404 4
345 0405 4 IF RECORD_ADR [1] LSSA .CCB [LUB$A_BUF_END]
346 0406 4 THEN
347 0407 5 BEGIN
348 0408 5 LOCAL
349 0409 5 CHARS_REMAINING,
```

```
350 0410 5 FOUND_CHAR: REF VECTOR [, WORD];
351 0411 5
352 0412 5 BUILTIN
353 0413 5 SKPC;
354 0414 5
355 0415 5 RECORD_ADR = RECORD_ADR [1];
356 0416 5 SKPC (%REF(%C' '), %REF((CCB [LUB$A BUF_END] - .RECORD_ADR)),
357 0417 5 RECORD_ADR [0]; CHARS_REMAINING, FOUND_CHAR);
358 0418 5
359 0419 5
360 0420 5 + FOUND_CHAR now contains address of first non-blank character.
361 0421 5 See if it is a "?" or "=?".
362 0422 5
363 0423 5
364 0424 5 IF .CHARS_REMAINING NEQ 0
365 0425 5 THEN
366 0426 6 BEGIN
367 0427 6 BIND
368 0428 6 FAB = CCB: REF $FOR$FAB CCB_STRUCT,
369 0429 6 FAB_DEV = FAB [FAB$L_DEV]: BLOCK [4, BYTE];
370 0430 6
371 0431 6 IF .FAB_DEV [DEV$V_TRM] AND .FAB [FAB$V_PUT]
372 0432 6 THEN
373 0433 7 BEGIN
374 0434 7 IF (CH$RCHAR (.FOUND_CHAR) EQL %C'?'
375 0435 7 THEN
376 0436 8 BEGIN
377 0437 8 FOR$$REC WSNO (); ! Start an output record
378 0438 8 FOR$$DO_NML_OUTPUT (1); ! Dump names only
379 0439 8 END
380 0440 7 ELSE IF .CHARS_REMAINING GTRU 1
381 0441 7 THEN
382 0442 8 BEGIN
383 0443 8 IF .FOUND_CHAR [0] EQL %ASCII'=?'
384 0444 8 THEN
385 0445 9 BEGIN
386 0446 9 FOR$$REC WSNO (); ! Start an output record
387 0447 9 FOR$$DO_NML_OUTPUT (0); ! Dump values too
388 0448 8 END;
389 0449 7 END;
390 0450 6 END;
391 0451 5 END;
392 0452 4 END;
393 0453 4
394 0454 3 END; ! Loop forever until EOF or match
395 0455 3
396 0456 2 END;
397 0457 2
398 0458 2
399 0459 2 + At this point, STRINGPTR and STRINGCNT reflect the rest of the record
400 0460 2 after the group name (possibly empty). We now call LIB$PARSE to
401 0461 2 analyze and execute any assignments contained in the NAMELIST input.
402 0462 2 The parse will terminate when a end-of-block or error is found.
403 0463 2
404 0464 2
405 0465 2 IF NOT LIB$PARSE (PARAM_BLOCK, FOR$$A_NMLSTATE, FOR$$A_NMLKEYWD)
406 0466 2 THEN
```

: 407
: 408
: 409
: 410

0467 2
0468 2
0469 2
0470 1

RETURN;
END;

FOR\$\$SIGNAL_STO (FOR\$SYNERRNAM, PARAM_BLOCK [TPASL_TOKENCNT]);

! End of routine FOR\$\$UDF_RNO

			007C 00000		PROCESS_LIST:		
			56	00000000G	00 9E 00002	.WORD Save R2,R3,R4,R5,R6	0218
			5E	FF64	CE 9E 00009	MOVAB FOR\$\$REC_WSN0, R6	
009C	8F	00	6E		00 2C 0000E	MOVAB -156(SP), SP	0308
					6E 00015	MOVCS #0, (SP), #0, #156, PARAM_BLOCK	
			6E		08 D0 00016	MOVL #8, PARAM_BLOCK	0309
	24		AE	FF7C	CB D0 00019	MOVL -132(CCB), PARAM_BLOCK+36	0310
	40		AE		5B D0 0001F	MOVL CCB, PARAM_BLOCK+64	0311
			55	24	BE D0 00023	MOVL @PARAM_BLOCK+36, GROUP_NAME	0322
				00000000G	00 16 00027	JSB FOR\$\$REC_RSNO	0334
			52	B0	AB D0 0002D	MOVL -80(CCB), RECORD_ADR	0335
	50	B4	AB		52 C3 00031	SUBL3 RECORD_ADR, -76(CCB), R0	0341
	62		50		21 3A 00036	LOCC #33, R0, (RECORD_ADR)	0342
		B4	AB		51 D0 0003A	MOVL R1, -76(CCB)	
			50	02	A2 9E 0003E	MOVAB 2(R2), R0	0344
			53	B4	AB D0 00042	MOVL -76(CCB), R3	
			53		50 D1 00046	CMPL R0, R3	
					71 1E 00049	BGEQU 10\$	
			24	01	A2 91 0004B	CMPB 1(RECORD_ADR), #36	0347
					06 13 0004F	BEQL 2\$	
			26	01	A2 91 00051	CMPB 1(RECORD_ADR), #38	
					65 12 00055	BNEQ 10\$	
			54		65 9A 00057	MOVZBL (GROUP_NAME), GROUPNAME_LEN	0353
					52 D6 0005A	INCL RECORD_ADR	0354
			50	01	A2 9E 0005C	MOVAB 1(R2), STRING_PTR	0360
			53		50 D1 00060	CMPL STRING_PTR, R3	0361
					0E 1E 00063	BGEQU 4\$	
			20		60 91 00065	CMPB (STRING_PTR), #32	0365
					09 13 00068	BEQL 4\$	
			09		60 91 0006A	CMPB (STRING_PTR), #9	0366
					04 13 0006D	BEQL 4\$	
					50 D6 0006F	INCL STRING_PTR	0369
					ED 11 00071	BRB 3\$	0361
		0C	AE		50 D0 00073	MOVL STRING_PTR, PARAM_BLOCK+12	0372
08	AE		53		50 C3 00077	SUBL3 STRING_PTR, R3, PARAM_BLOCK+8	0374
	50	0C	AE		52 C3 0007C	SUBL3 RECORD_ADR, PARAM_BLOCK+12, R0	0380
					50 D7 00081	DECL R0	
			50		54 D1 00083	CMPL GROUPNAME_LEN, R0	
					34 12 00086	BNEQ 10\$	
					50 D4 00088	CLRL POS	0381
					27 11 0008A	BRB 8\$	
		61	8F	6042	91 0008C	CMPB (POS)[RECORD_ADR], #97	0385
					10 1F 00091	BLSSU 6\$	
		7A	8F	6042	91 00093	CMPB (POS)[RECORD_ADR], #122	0386
					09 1A 00098	BGTRU 6\$	
			51	6042	9A 0009A	MOVZBL (POS)[RECORD_ADR], R1	0388
			51	20	C2 0009E	SUBL2 #32, R1	

51	6045	51	08	6042	04 11 000A1	BRB	7\$:	0390
				00	9A 000A3	MOVZBL	(POS)[RECORD_ADR], R1	:	0384
				04	ED 000A7	CMPZV	#0, #8, (POST)[GROUP_NAME], R1	:	
				50	13 000AD	BEQL	8\$:	
				07	D4 000AF	CLRL	R0	:	0393
	D5	50	50	54	11 000B1	BRB	9\$:	
		50	50	01	F3 000B3	AOBLEQ	GROUPNAME_LEN, POS, 5\$:	0381
				4C	CE 000B7	MNEGL	#1, R0	:	
		50	53	01	12 000BA	BNEQ	14\$:	0394
				50	9E 000BC	MOVAB	1(R2), R0	:	0405
				40	D1 000C0	CMPL	R0, R3	:	
				52	1E 000C3	BGEQU	13\$:	
	50	53	53	52	D6 000C5	INCL	RECORD_ADR	:	0415
	62	50	50	52	C3 000C7	SUBL3	RECORD_ADR, R3, R0	:	0416
		54	53	20	3B 000CB	SKPC	#32, R0, (RECORD_ADR)	:	0417
		54		50	D0 000CF	MOVL	R0, R4	:	
		53		51	D0 000D2	MOVL	R1, R3	:	
				54	D5 000D5	TSTL	CHARS_REMAINING	:	0424
	26	0084	CB	2C	13 000D7	BEQL	13\$:	
			22	02	E1 000D9	BBC	#2, 132(CCB), 13\$:	0431
			3F	SA	AB E9 000DF	BLBC	90(CCB), 13\$:	
				63	91 000E3	CMPB	(FOUND_CHAR), #63	:	0434
				06	12 000E6	BNEQ	11\$:	
				66	16 000E8	JSB	FOR\$\$REC_WSNO	:	0437
				01	DD 000EA	PUSHL	#1	:	0438
				10	11 000EC	BRB	12\$:	
		01		54	D1 000EE	CMPL	CHARS_REMAINING, #1	:	0440
				12	1B 000F1	BLEQU	13\$:	
	3F3D	8F		63	B1 000F3	CMPW	(FOUND_CHAR), #16189	:	0443
				0B	12 000F8	BNEQ	13\$:	
				66	16 000FA	JSB	FOR\$\$REC_WSNO	:	0446
				7E	D4 000FC	CLRL	-(SP)	:	0447
	00000000G	00		01	FB 000FE	CALLS	#1, FOR\$\$DO_NML_OUTPUT	:	
				FF	1F 31 00105	BRW	1\$:	0431
				00	9F 00108	PUSHAB	FOR\$\$A_NMLKEYWD	:	0465
				00	9F 0010E	PUSHAB	FOR\$\$A_NMLSTATE	:	
				08	AE 9F 00114	PUSHAB	PARAM_BLOCK	:	
	00000000G	00		03	FB 00117	CALLS	#3, LIB\$TPARSE	:	
		10		50	E8 0011E	BLBS	R0, 15\$:	
				10	AE 9F 00121	PUSHAB	PARAM_BLOCK+16	:	0467
				0018808C	8F DD 00124	PUSHL	#1605772	:	
	00000000G	00		02	FB 0012A	CALLS	#2, FOR\$\$SIGNAL_STO	:	
				04	00131	RET		:	0470

: Routine Size: 306 bytes, Routine Base: _FOR\$CODE + 0006

: 411 0471 1 !<BLF/PAGE>

```

: 413 0472 1 %SBTTL 'FOR$$UDF_RN9 - Terminate NAMelist input'
: 414 0473 1 GLOBAL ROUTINE FOR$$UDF_RN9 . Terminate NAMelist input
: 415 0474 1 : JSB_UDF9 NOVALUE =
: 416 0475 1
: 417 0476 1 !++
: 418 0477 1 ! FUNCTIONAL DESCRIPTION:
: 419 0478 1
: 420 0479 1 : Terminate NAMelist input. This procedure is necessary because
: 421 0480 1 : FOR$IC_END dispatches to a UDF9 routine for all statement types.
: 422 0481 1
: 423 0482 1 ! CALLING SEQUENCE:
: 424 0483 1
: 425 0484 1 : JSB FOR$$UDF_RN9
: 426 0485 1
: 427 0486 1 ! FORMAL PARAMETERS:
: 428 0487 1
: 429 0488 1 : NONE
: 430 0489 1
: 431 0490 1 ! IMPLICIT INPUTS:
: 432 0491 1
: 433 0492 1 : NONE
: 434 0493 1
: 435 0494 1 ! IMPLICIT OUTPUTS:
: 436 0495 1
: 437 0496 1 : NONE
: 438 0497 1
: 439 0498 1 ! COMPLETION STATUS:
: 440 0499 1
: 441 0500 1 : NONE
: 442 0501 1
: 443 0502 1 ! SIDE EFFECTS:
: 444 0503 1
: 445 0504 1 : NONE
: 446 0505 1
: 447 0506 1 !--
: 448 0507 1
: 449 0508 2 : BEGIN
: 450 0509 2
: 451 0510 2 : RETURN;
: 452 0511 2
: 453 0512 1 : END; ! End of routine FOR$$UDF_RN9

```

05 0000 FOR\$\$UDF_RN9::
RSB

: 0512

; Routine Size: 1 bytes, Routine Base: _FOR\$CODE + 0138

; 454 0513 1 !<BLF/PAGE>

FOR\$\$UDF_RN
1-005

NAMLIST input UDF level
FOR\$\$UDF_RN9 - Terminate NAMLIST input

H 10
16-Sep-1984 00:49:15 VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:32:51 [FORRTL.SRC]FORUDFRN.B32;1

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(8)

FOR
1-C

: 456 0514 1 END
: 457 0515 1
: 458 0516 0 ELUDOM

End of module FOR\$\$UDF_RN

PSECT SUMMARY

Name Bytes Attributes
:_FOR\$CODE 313 NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
-\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	8	0	581	00:01.0
-\$255\$DUA28:[FORRTL.OBJ]FORLIB.L32;1	711	207	29	52	00:00.6
-\$255\$DUA28:[FORRTL.OBJ]RTLLIB.L32;1	36	0	0	8	00:00.1
-\$255\$DUA28:[SYSLIB]TPAMAC.L32;1	42	0	0	14	00:00.2

COMMAND QUALIFIERS

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

: Size: 313 code + 0 data bytes
: Run Time: 00:10.7
: Elapsed Time: 00:37.3
: Lines/CPU Min: 2907
: Lexemes/CPU-Min: 11836
: Memory Used: 154 pages
: Compilation Complete

