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0001 0 %TITLE 'EDT$PRPUSH - new parse node'
0002 0 MODULE EDT$PRPUSH (
0003 0 IDENT = 'V04-000'
0004 0 ) =
0005 1 BEGIN
0006 1
0007 1 *****
0008 1 *
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0025 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0026 1 *
0027 1 *
0028 1 *****
0029 1
0030 1
0031 1 ++
0032 1 FACILITY: EDT -- The DEC Standard Editor
0033 1
0034 1 ABSTRACT:
0035 1
0036 1 Create a new parse node.
0037 1
0038 1 ENVIRONMENT: Runs at any access mode - AST reentrant
0039 1
0040 1 AUTHOR: Bob Kushlis, CREATION DATE: December 12, 1978
0041 1
0042 1 MODIFIED BY:
0043 1
0044 1 1-001 - Original. DJS 25-Feb-1981. This module was created by
0045 1 extracting routine PUSH from module PARSER.
0046 1 1-002 - Regularize headers. JBS 12-Mar-1981
0047 1 1-003 - Use new message codes. JBS 04-Aug-1981
0048 1 1-004 - Improve the appearance of the listing. JBS 17-Jun-1983
0049 1 --
0050 1

```

.....


```

87 0940 1 %SBTTL 'EDT$$PA_NEW_NOD - new parse node'
88 0941 1
89 0942 1 GLOBAL ROUTINE EDT$$PA_NEW_NOD (
90 0943 1     NT,                                ! New parse node
91 0944 1     TYP,                            ! Stored in [NODE_TYPE]
92 0945 1     ) =                             ! Stored in [COM_NUM]
93 0946 1
94 0947 1 ++
95 0948 1 | FUNCTIONAL DESCRIPTION:
96 0949 1 |
97 0950 1 |     Create a semantic node of the specified type and subtype. If the
98 0951 1 |     stack overflows, return a 0 otherwise, return the address of the new
99 0952 1 |     node.
100 0953 1 |
101 0954 1 | FORMAL PARAMETERS:
102 0955 1 |
103 0956 1 |     NT                               Stored in [NODE_TYPE]
104 0957 1 |
105 0958 1 |     TYP                               Stored in [COM_NUM]
106 0959 1 |
107 0960 1 | IMPLICIT INPUTS:
108 0961 1 |
109 0962 1 |     EDT$$Z_PA_STK
110 0963 1 |     EDT$$G_PA_SP
111 0964 1 |
112 0965 1 | IMPLICIT OUTPUTS:
113 0966 1 |
114 0967 1 |     EDT$$G_PA_ERRNO
115 0968 1 |     EDT$$Z_PA_STK
116 0969 1 |     EDT$$G_PA_SP
117 0970 1 |
118 0971 1 | ROUTINE VALUE:
119 0972 1 |
120 0973 1 |     0 = parse stack overflow
121 0974 1 |     non-zero = address of new parse semantic node
122 0975 1 |
123 0976 1 | SIDE EFFECTS:
124 0977 1 |
125 0978 1 |     NONE
126 0979 1 |
127 0980 1 | --
128 0981 1 |
129 0982 2 | BEGIN
130 0983 2 |
131 0984 2 | EXTERNAL
132 0985 2 |     EDT$$G_PA_ERRNO,                ! Error number of parsing error.
133 0986 2 |     EDT$$Z_PA_STK : BLOCKVECTOR [NUM_NODES, NODE_SIZE, BYTE] FIELD (NODE_FIELDS),
134 0987 2 |     EDT$$G_PA_SP;
135 0988 2 |
136 0989 2 | MESSAGES ((PARSTKOVF));
137 0990 2 |
138 0991 2 | LOCAL
139 0992 2 |     NODE : REF NODE_BLOCK;
140 0993 2 |
141 0994 2 | EDT$$G_PA_SP = .EDT$$G_PA_SP + 1;
142 0995 2 |
143 0996 2 | IF (.EDT$$G_PA_SP GEQU NUM_NODES)

```

```

: 144      0997 2      THEN
: 145      0998      BEGIN
: 146      0999      EDT$$G_PA_ERRNO = EDT$_PARSTKOVF;
: 147      1000      RETURN (0);
: 148      1001      END;
: 149      1002
: 150      1003      NODE = EDT$$Z_PA_STK [.EDT$$G_PA_SP, NODE_TYPE];
: 151      1004      CH$FILL (0, NODE_SIZE, .NODE);
: 152      1005      NODE [NODE_TYPE] = .NT;
: 153      1006      NODE [COM_NUM] = .TYP;
: 154      1007      RETURN (.NODE);
: 155      1008 1      END;

```

! of routine EDT\$\$PA_NEW_NOD

.TITLE EDT\$PRPUSH EDT\$PRPUSH - new parse node
.IDENT \V04-000\

.EXTRN EDT\$\$G_PA_ERRNO
.EXTRN EDT\$\$Z_PA_STK, EDT\$\$G_PA_SP
.EXTRN EDT\$_PARSTKOVF

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

					.ENTRY EDT\$\$PA_NEW_NOD, Save R2,R3,R4,R5,R6,R7	: 0942
					MOVAB EDT\$\$G_PA_SP, R7	
					INCL EDT\$\$G_PA_SP	: 0994
					MOVL EDT\$\$G_PA_SP, R0	: 0996
					CML R0, #20	
					BLSSU 1\$	
		00000000G	00 00000000G	8F D0 00013	MOVL #EDT\$_PARSTKOVF, EDT\$\$G_PA_ERRNO	: 0999
				1E 11 0001E	BRB 2\$: 1000
				20 C4 00020	MULL2 #32, R0	: 1003
				56 00000000G0040	MOVAB EDT\$\$Z_PA_STK[R0], NODE	
20				6E 00 2C 0002B	MOVCS #0, (SP), -#0, #32, (NODE)	: 1004
				65 00030		
				01 66 04 AC 90 00031	MOVB NT, (NODE)	: 1005
				A6 08 AC 90 00035	MOVB TYP, 1(NODE)	: 1006
				50 56 D0 0003A	MOVL NODE, R0	: 1007
				04 0003D	RET	
				50 D4 0003E	CLRL R0	: 1008
				04 00040	RET	

; Routine Size: 65 bytes, Routine Base: _EDT\$CODE + 0000

```

: 156      1009 1
: 157      1010 1 !<BLF/PAGE>

```

EDT\$PRPUSH
V04-000

EDT\$PRPUSH - new parse node
EDT\$SPA_NEW_NOD - new parse node

M 4
16-Sep-1984 01:22:33
14-Sep-1984 12:24:14

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[EDT.SRC]PRPUSH.BLI;1 Page 5 (4)

: 159 1011 1 END
: 160 1012 1
: 161 1013 0 ELUDOM

! of module EDT\$PRPUSH

PSECT SUMMARY

Name	Bytes	Attributes
_EDT\$CODE	65	NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(2)

Library Statistics

File	Total	Symbols Loaded	Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[EDT.SRC]EDT.L32;1	377	51	13	40	00:00.2
_\$255\$DUA28:[EDT.SRC]PSECTS.L32;1	2	1	50	7	00:00.1

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/NOTRACEBACK/LIS=LIS\$:PRPUSH/OBJ=OBJ\$:PRPUSH MSRC\$:PRPUSH.BLI/UPDATE=(ENH\$:PRPUSH)

: Size: 65 code + 0 data bytes
: Run Time: 00:13.4
: Elapsed Time: 00:17.0
: Lines/CPU Min: 4539
: Lexemes/CPU-Min: 14477
: Memory Used: 99 pages
: Compilation Complete

