

NNN		NNN	CCCCCCCCCCCC	PPPPPPPPPPPP	
NNN		NNN	CCCCCCCCCCCC	PPPPPPPPPPPP	
NNN		NNN	CCCCCCCCCCCC	PPPPPPPPPPPP	
NNN		NNN	CCC	PPP	PPP
NNN		NNN	CCC	PPP	PPP
NNN		NNN	CCC	PPP	PPP
NNNNNN		NNN	CCC	PPP	PPP
NNNNNN		NNN	CCC	PPP	PPP
NNNNNN		NNN	CCC	PPP	PPP
NNN	NNN	NNN	CCC	PPPPPPPPPPPP	
NNN	NNN	NNN	CCC	PPPPPPPPPPPP	
NNN	NNN	NNN	CCC	PPPPPPPPPPPP	
NNN	NNNNNN	NNN	CCC	PPP	
NNN	NNNNNN	NNN	CCC	PPP	
NNN	NNNNNN	NNN	CCC	PPP	
NNN	NNN	NNN	CCC	PPP	
NNN	NNN	NNN	CCC	PPP	
NNN	NNN	NNN	CCC	PPP	
NNN	NNN	NNN	CCCCCCCCCCCC	PPP	
NNN	NNN	NNN	CCCCCCCCCCCC	PPP	
NNN	NNN	NNN	CCCCCCCCCCCC	PPP	

```
NN      NN      CCCCCCCC PPPPPPPP SSSSSSSS TTTTTTTTTT AAAAAA 000000 88888888 JJ
NN      NN      CCCCCCCC PPPPPPPP SSSSSSSS TTTTTTTTTT AAAAAA 000000 88888888 JJ
NN      NN      CC      PP      PP      SS      TT      AA      AA      00      00      88      88      JJ
NN      NN      CC      PP      PP      SS      TT      AA      AA      00      00      88      88      JJ
NNNN    NN      CC      PP      PP      SS      TT      AA      AA      00      00      88      88      JJ
NNNN    NN      CC      PP      PP      SS      TT      AA      AA      00      00      88      88      JJ
NN      NN      CC      PPPPPPPP SSSSSS      TT      AA      AA      00      00      88888888 JJ
NN      NN      CC      PPPPPPPP SSSSSS      TT      AA      AA      00      00      88888888 JJ
NN      NN      CC      PP      SS      TT      TTTT      AAAAAAAAAA 00      00      88      88      JJ
NN      NN      CC      PP      SS      TT      TTTT      AAAAAAAAAA 00      00      88      88      JJ
NN      NN      CC      PP      SS      TT      TTTT      AA      AA      00      00      88      88      JJ
NN      NN      CC      PP      SS      TT      TTTT      AA      AA      00      00      88      88      JJ
NN      NN      CC      PP      SS      TT      TTTT      AA      AA      00      00      88      88      JJ
NN      NN      CC      PP      SS      TT      TTTT      AA      AA      00      00      88      88      JJ
NN      NN      CCCCCCCC PP      SSSSSSSS      TT      AA      AA      000000 88888888 JJ
NN      NN      CCCCCCCC PP      SSSSSSSS      TT      AA      AA      000000 88888888 JJ
```

```
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
```

.....


```
0001 0 %TITLE 'Object Parameter Parse States and Data'
0002 0 MODULE NCPSTAOBJ (IDENT = 'V04-000', LIST(NOOBJECT)) =
0003 1 BEGIN
0004 1
0005 1
0006 1 *****
0007 1 *
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0024 1 *  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0025 1 *
0026 1 *
0027 1 *****
0028 1
0029 1
0030 1 ++
0031 1 FACILITY:      Network Control Program (NCP)
0032 1
0033 1 ABSTRACT:
0034 1
0035 1      States and data for the parsing of NCP object parameters
0036 1
0037 1 ENVIRONMENT:  VAX/VMS Operating System
0038 1
0039 1 AUTHOR:      Darrell Duffy , CREATION DATE: 10-September-79
0040 1
0041 1 MODIFIED BY:
0042 1
0043 1      V03-002  RPG0002      Bob Grosso      19-Feb-1983
0044 1      Add PROXY 'REQUIRED'.
0045 1
0046 1      V001      TMH0001      Tim Halvorsen  02-Jun-1982
0047 1      Fix PROXY ACCESS parameter to allow ACCESS as a noise word.
0048 1 --
```

NCPSTA0BJ
V04-000

Object Parameter Parse States and Data
Definitions

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```

: 50      0049 1 %SBTTL 'Definitions'
: 51      0050 1
: 52      0051 1
: 53      0052 1
: 54      0053 1
: 55      0054 1
: 56      0055 1
: 57      0056 1
: 58      0057 1
: 59      0058 1
: 60      0059 1
: 61      0060 1
: 62      0061 1
: 63      0062 1
: 64      0063 1

          INCLUDE FILES:

          LIBRARY 'LIB$:NMALIBRY.L32';
          LIBRARY 'LIB$:NCPLIBRY.L32';
          LIBRARY 'SYSS$LIBRARY:TPAMAC.L32';

          EXTERNAL REFERENCES:

          ACT_DFN          ! Action routine externals
```



```

: 66      0064 1 %SBTTL 'Parameter blocks'
: 67      0065 1
: 68      0066 1
: 69      0067 1
: 70      0068 1
: 71      0069 1
: 72      P 0070 1 BUILD_PCL
: 73      P 0071 1
: 74      P 0072 1 (OBJ,
: 75      P 0073 1
: 76      P 0074 1 NUM, NUMB, PCOB_NUM, ,
: 77      P 0075 1 FIL, TKN, PCOB_FID, ,
: 78      P 0076 1 PRV, PRVL, PCOB_PRV, ,
: 79      P 0077 1 USR, TKNQ, PCOB_USR, ,
: 80      P 0078 1 ACC, TKNQ, PCOB_ACC, ,
: 81      P 0079 1 PSW, TKNQ, PCOB_PSW, ,
: 82      P 0080 1 PRX, NUMB, PCOB_PRX, ,
: 83      P 0081 1
: 84      P 0082 1 , END, , ,
: 85      P 0083 1
: 86      0084 1 )
: 87      0085 1
: 88      P 0086 1 BUILD_PBK
: 89      P 0087 1
: 90      P 0088 1 (OBJ,
: 91      P 0089 1
: 92      P 0090 1 NUM, NUMB, , ,
: 93      P 0091 1 FIL, TKN, , ,
: 94      P 0092 1 PRV, PRVL, , ,
: 95      P 0093 1 USR, TKNQ, , ,
: 96      P 0094 1 ACC, TKNQ, , ,
: 97      P 0095 1 PSW, TKNQ, , ,
: 98      P 0096 1 CPV, PRVC, , OBJ PRV,
: 99      P 0097 1 PRXNON, LITB, NMASC_ACES_NONE, OBJ_PRX,
: 100     P 0098 1 PRXINC, LITB, NMASC_ACES_INCO, OBJ_PRX,
: 101     P 0099 1 PRXOUT, LITB, NMASC_ACES_OUTG, OBJ_PRX,
: 102     P 0100 1 PRXBOT, LITB, NMASC_ACES_BOTH, OBJ_PRX,
: 103     P 0101 1 PRXREQ, LITB, NMASC_ACES_REQU, OBJ_PRX,
: 104     P 0102 1
: 105     0103 1 )
: 106     0104 1
: 107     P 0105 1 BUILD_SDB
: 108     P 0106 1
: 109     0107 1 (OBJ, -NMASC_SENT_OBJ, VRB_ENT, OBJ)

```

```

: 111      0108 1 %SBTTL 'Prompt strings'
: 112      0109 1
: 113      0110 1
: 114      0111 1
: 115      0112 1 Build prompt strings
: 116      0113 1
: 117      0114 1 BIND
: 118      0115 1
: 119      P 0116 1 PROMPT_STRINGS
: 120      P 0117 1 (OBJ,
: 121      P 0118 1
: 122      P 0119 1 FIL, 'File name (filename): ',
: 123      P 0120 1 NUM, 'Object number (0-255): ',
: 124      P 0121 1 PRV, 'Privileges (List of VMS privileges): ',
: 125      P 0122 1 USR, 'User ID (1-39 characters): ',
: 126      P 0123 1 PSW, 'Password (1-39 characters): ',
: 127      P 0124 1 ACC, 'Account (1-39 characters): ',
: 128      L 0125 1 PRX, %STRING(
: 129      L 0126 1 'Proxy access (INCOMING, OUTGOING,
: 130      P 0127 1 'BOTH, NONE, REQUIRED): '),
: 131      P 0128 1
: 132      0129 2 )
: 133      0130 1 ;
```



```
.. 135      0131 1 %SBTTL 'State Table for Object Parameters'
.. 136      0132 1
.. 137      0133 1 $INIT_STATE (NCP$G_STTBL_OBJ, NCP$G_KYTBL_OBJ);
.. 138      0134 1
.. 139      0135 1
.. 140      0136 1 SET/DEFINE OBJECT Parameter States
.. 141      0137 1
.. 142      0138 1
.. 143      P 0139 1 $STATE (ST_OBJ,
.. 144      P 0140 1 ( (SE_ALL), ST_OBJ DOIT), ! All parameter
.. 145      P 0141 1 (TPAS_EOS, , ACT$PMT_ON), ! Prompt if no keywords
.. 146      P 0142 1 (TPAS_LAMBDA, ST_OBJ_PRC, ACT$PMT_OFF) ! Process keywords
.. 147      0143 1 );
.. 148      0144 1
.. 149      P 0145 1 PROMPT_STATES ! Prompt for these parameters
.. 150      P 0146 1 (OBJ,
.. 151      P 0147 1 NUM, FIL, PRV, USR, PSW, ACC, PRX
.. 152      0148 1 )
.. 153      0149 1
.. 154      P 0150 1 $STATE (ST_OBJ DOIT,
.. 155      P 0151 1 (TPAS_EOS, TPAS_EXIT, ACT$VRB_UTILITY, , , SDB$G_OBJ),
.. 156      0152 1 );
```

```
158 0153 1 %SBTTL 'Dispatch States'
159 0154 1
160 0155 1
161 0156 1
162 0157 1
163 0158 1
164 P 0159 1 $STATE (ST_OBJ_PRC,
165 P 0160 1
166 P 0161 1 DISPATCH_STATES
167 P 0162 1 (OBJ,
168 P 0163 1
169 P 0164 1 ACC, 'ACCOUNT',
170 P 0165 1 FIL, 'FILE',
171 P 0166 1 NUM, 'NUMBER',
172 P 0167 1 PRV, 'PRIVILEGES',
173 P 0168 1 PSW, 'PASSWORD',
174 P 0169 1 PRX, 'PROXY',
175 P 0170 1 USR, 'USER',
176 P 0171 1
177 P 0172 1 )
178 P 0173 1 (TPAS_EOS, ST_OBJ_DOIT)
179 0174 1 ;
180 0175 1
181 0176 1 %SBTTL 'Process States'
182 0177 1
183 0178 1
184 0179 1
185 0180 1
186 0181 1
187 P 0182 1 PROCESS_STATES
188 P 0183 1 (OBJ,
189 P 0184 1
190 P 0185 1 ACC, ,
191 P 0186 1 FIL, ,
192 P 0187 1 NUM, ,
193 P 0188 1 PRV, ,
194 P 0189 1 PSW, ,
195 P 0190 1 PRX, 'ACCESS',
196 P 0191 1 USR, ,
197 P 0192 1
198 0193 1 )
```


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V04-000

Object Parameter Parse States and Data
Subexpressions

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:	200	0194	1	%SBTTL	'Subexpressions'
:	201	0195	1		
:	202	0196	1		
:	203	0197	1		
:	204	0198	1		
:	205	0199	1		
:	206	P 0200	1		SUB_EXPRESSIONS
:	207	P 0201	1		(OBJ,
:	208	P 0202	1		
:	209	P 0203	1		ACC, (SE_ACC_ACC),
:	210	P 0204	1		FILE, (SE_FILE_ID),
:	211	P 0205	1		NUM, TPAS_DECIMAL,
:	212	P 0206	1		PSW, (SE_ACC_PSW),
:	213	P 0207	1		USR, (SE_ACC_USR),
:	214	P 0208	1		
:	215	0209	1		)

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```
.. 217      0210 1 %SBTTL 'Subexpressions for Privilege List'
.. 218      0211 1
.. 219      0212 1
.. 220      0213 1
.. 221      0214 1
.. 222      0215 1
.. 223      P 0216 1 $STATE (ST_OBJ_PRIV,
.. 224      P 0217 1 (TPAS_EXIT, TPAS_EXIT),
.. 225      P 0218 1 (TPAS_LAMBDA, , ACT$SAVPRM, , , PBK$G_OBJ_CPV)
.. 226      0219 1 );
.. 227      0220 1
.. 228      P 0221 1 $STATE (
.. 229      P 0222 1 ( (SE_PRIV) )
.. 230      0223 1 );
.. 231      0224 1
.. 232      P 0225 1 $STATE (ST_PRIV_1,
.. 233      P 0226 1 ( (SE_PRIV), ST_PRIV_1),
.. 234      P 0227 1 (TPAS_LAMBDA, TPAS_EXIT)
.. 235      0228 1 );
.. 236      0229 1
.. 237      P 0230 1 $STATE (SE_PRIV,
.. 238      P 0231 1 (TPAS_SYMBOL, TPAS_EXIT, ACT$SAVPRM, , , PBK$G_OBJ_PRIV)
.. 239      0232 1 );
```



```

: 241      0233 1
: 242      0234 1 !
: 243      0235 1 Parse PROXY value.
: 244      0236 1 !
: 245      0237 1 !
: 246      P 0238 1 $STATE (ST_OBJ_PRX,      ! Object proxy access
: 247      P 0239 1
: 248      P 0240 1 KEYWORD_STATE
: 249      P 0241 1 (OBJ,
: 250      P 0242 1
: 251      P 0243 1 PRXNON, 'NONE',
: 252      P 0244 1 PRXINC, 'INCOMING',
: 253      P 0245 1 PRXOUT, 'OUTGOING',
: 254      P 0246 1 PRXBOT, 'BOTH',
: 255      P 0247 1 PRXREQ, 'REQUIRED',
: 256      0248 1 ));

```

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Object Parameter Parse States and Data
Define Subexpressions from Library

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:	258	0249	1	%SBTTL	'Define Subexpressions from Library'
:	259	0250	1		
:	260	0251	1	:	
:	261	0252	1	:	Define subexpressions from library
:	262	0253	1	:	
:	263	0254	1	:	
:	264	0255	1	SEM_ACCESS	: Access control strings
:	265	0256	1	SEM_ALL	: All parameter
:	266	0257	1	SEM_FILE_ID	: File id stringa
:	267	0258	1	SEM_QUOT_STR	: Quoted strings

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[illegible]

0271

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