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DDDDDDDD      CCCCCCCC  LL      TTTTTTTTTT  AAAAAA  BBBB8888  LL      EEEEEEEEEE  11
DDDDDDDD      CCCCCCCC  LL      TTTTTTTTTT  AAAAAA  BBBB8888  LL      EEEEEEEEEE  11
DD      DD  CC      LL      TT      AA      AA  BB      BB  LL      EE      1111
DD      DD  CC      LL      TT      AA      AA  BB      BB  LL      EE      1111
DD      DD  CC      LL      TT      AA      AA  BB      BB  LL      EE      11
DD      DD  CC      LL      TT      AA      AA  BB      BB  LL      EE      11
DD      DD  CC      LL      TT      AA      AA  BBBB8888  LL      EEEEEEEE  11
DD      DD  CC      LL      TT      AA      AA  BBBB8888  LL      EEEEEEEE  11
DD      DD  CC      LL      TT      AAAAAAAAAA  BB      BB  LL      EE      11
DD      DD  CC      LL      TT      AAAAAAAAAA  BB      BB  LL      EE      11
DD      DD  CC      LL      TT      AA      AA  BB      BB  LL      EE      11
DD      DD  CC      LL      TT      AA      AA  BB      BB  LL      EE      11
DD      DD  CC      LL      TT      AA      AA  BBBB8888  LL      EEEEEEEEEE  11111
DDDDDDDD      CCCCCC.C  LLLLLLLLLL  TT      AA      AA  BBBB8888  LLLLLLLLLL  EEEEEEEEEE  11111
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LL      SSSSSSSS
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Version: 'V04-000'  
V03-003 DAS0002 David Solomon 27-Jan-1984  
Remove type declarations for /TYPE and /PROCESS (as they  
are not used). Add disallow clauses to make /BINARY, /BRIEF,  
/FULL, and /SUMMARY mutually exclusive. Don't allow /SORT with  
/SUMMARY. Require /SUMMARY with /REPORT.  
V03-002 DAS0001 David Solomon 25-May-1983  
Remove TYPE=xxx from /TYPE, /PROCESS, and /SORT qualifiers,  
because the syntax that ACC accepted in V3 is not accepted  
by DCL in V4, given the existing keyword TYPE definitions.  
V03-001 PCA1008 Paul C. Anagnostopoulos 25-Mar-1983  
Fix the VALUE clauses so that there are commas between  
the subclauses. The new CLD requires them.

```
define type ACNT_REPORT_KEYWORDS
keyword BUFFERED_IO
keyword DIRECT_IO
keyword ELAPSED
keyword EXECUTION
keyword FAULTS
keyword GETS
keyword PAGE_FILE
keyword PAGE_READS
keyword PAGES
keyword PROCESSOR
keyword QIOS
keyword RECORDS default
keyword VOLUMES
keyword WORKING_SET
```

```
define type ACNT_SUMMARY_KEYWORDS
keyword ACCOUNT
keyword DATE
keyword DAY
keyword HOUR
keyword IMAGE
keyword JOB
keyword MONTH
keyword NODE
keyword PROCESS
keyword QUEUE
keyword TERMINAL
keyword TYPE
keyword UIC
keyword USER default
keyword WEEKDAY
keyword YEAR
```

```
53 define      verb      ACCOUNTING
54           image      ACC
55           parameter  P1
56           label     = INPUT
           value     (list,type=$infile,default=SYSS$MANAGER:.DAT;)
```

```
57 :  
58 : Accounting record output qualifers  
59 :  
60 :   qualifier      BINARY  
61 :   qualifier      BRIEF  
62 :   qualifier      FULL  
63 :   qualifier      LOG  
64 :   qualifier      OUTPUT  default  
65 :                       value  (type=$outfile,default=SYSS$OUTPUT)  
66 :   qualifier      REPORT  default  
67 :                       value  (type=ACNT_REPORT_KEYWORDS,list)  
68 :   qualifier      REJECTED  
69 :                       value  (required,type=$outfile)  
70 :   qualifier      SUMMARY value  (type=ACNT_SUMMARY_KEYWORDS,list)  
71 :   qualifier      TITLE   value  (required)  
72 :  
73 : Accounting record selection qualifiers  
74 :  
75 :   qualifier      ACCOUNT value  (required,list)  
76 :   qualifier      ADDRESS value  (required,list)  
77 :   qualifier      BEFORE  value  (default=TODAY,type=$datetime)  
78 :   qualifier      ENTRY   value  (required,list)  
79 :   qualifier      IDENT   value  (required,list)  
80 :   qualifier      IMAGE   value  (required,list)  
81 :   qualifier      JOB     value  (required,list)  
82 :   qualifier      NODE    value  (required,list)  
83 :   qualifier      OWNER   value  (required,list)  
84 :   qualifier      PRIORITY value  (required,list)  
85 :   qualifier      PROCESS value  (required,list)  
86 :   qualifier      QUEUE   value  (required,list)  
87 :   qualifier      REMOTE_ID value  (required,list)  
88 :   qualifier      SINCE   value  (default=TODAY,type=$datetime)  
89 :   qualifier      STATUS  value  (required,list)  
90 :   qualifier      TERMINAL value  (required,list)  
91 :   qualifier      TYPE    value  (required,list)  
92 :   qualifier      UIC     value  (required,list,type=$uic)  
93 :   qualifier      USER   value  (required,list)  
94 :  
95 : Accounting record sort qualifiers  
96 :  
97 :   qualifier      SORT    value  (default=USER,list)  
98 :  
99 :   disallow      any2( SUMMARY, SORT )  
100 :   disallow      any2( BRIEF, FULL, BINARY, SUMMARY )  
101 :   disallow      not SUMMARY and REPORT
```

\$ SET COMMAND SRC\$ : ACC.CLD,ANALYZE.CLD,BACKUP.CLD,CHECKSUM.CLD,CONVERT.CLD,COPY.CLD,CREATE.CLD,DCLINT.CLD,DELETE.CLD,DIFF.CLD,DIRECT

Version: 'V04-000'

- 1 V03-022 DGB0066 Donald G. Blair 03-Jul-1984  
2 Allow negation of all qualifiers for ANALYZE/IMAGE and  
3 ANALYZE/OBJECT and ANALYZE/RMS\_FILE
- 4 V03-021 EAD0147 Elliott A. Drayton 12-Apr-1984  
5 Change file default for ANALYZE/ERROR\_LOG.
- 6 V03-020 SAR0244 Sharon A. Reynolds 4-Apr-1984  
7 Removed the negatable clause from /sid\_selection  
8 for ANALYZE/ERROR\_LOG.
- 9 V03-019 EAD0121 Elliott A. Drayton 24-Mar-1984  
10 Removed qualifier UNKNOWN.
- 11 V03-018 EAD0106 Elliott A. Drayton 28-Feb-1984  
12 Added LIST keyword for parameter(list of input file names)
- 13 V03-017 WMC0007 Wayne Cardoza 27-Feb-1984  
14 Remove checkpoint and journaling related stuff.
- 15 V03-016 JMG0011 Joel M. Gringorten 6-Feb-1984  
16 Added STATISTICS qualifier for ANALYZE/SUMMARY.
- 17 V03-015 SAR0185 Sharon A. Reynolds 17-Jan-1984  
18 Added HISTOGRAM keyword for ANALYZE/ERROR/SUMMARY.
- 19 V03-014 SAR0123 Sharon A. Reynolds 23-Aug-1983  
20 Added a file spec value for the /binary qualifier  
21 for ANALYZE/ERROR\_LOG.
- 22 V03-013 LJA0084 Laurie J. Anderson 25-Jul-1983  
23 Fix CLD defaults for ANALYZE/AUDIT
- 24 V03-012 WMC0006 Wayne Cardoza 24-Jul-1983  
25 Add ANALYZE/PROC/OUTPUT.
- 26 V03-011 LJA0076 Laurie J. Anderson 21-Jun-1983  
27 Add support for new ANALYZE/AUDIT utility
- 28 V03-010 SAR0019 Sharon A. Reynolds, 27-Apr-1983  
29 Added keyword support for /summary. Removed the negatable  
30 clause for /brief, /register\_dump, and /unknown qualifiers.  
31 (analyze/error).
- 32 V03-009 WMC0005 Wayne Cardoza 20-Apr-1983  
33 Add ANALYZE/PROCESS DUMP  
34 THIS AND THE TWO PRECEDING UPDATES WERE ACCIDENTALLY DELETED  
35 SOMEHOW.
- 36 V03-008 PCA1012 Paul C. Anagnostopoulos 14-Apr-1983  
37 Allow /NOOUTPUT on the ANALYZE/RMS command.
- 38 V03-007 WMC0004 Wayne Cardoza 04-Apr-1983

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14-JAN-1985 10:57  
14-JAN-1985 10:55

VAX/VMS Command Definition Utility (V4-001)  
\_S255\$DUA18:[CLD.BUGSRC]ANALYZE.CLD;1 (1)

Page 2

```
57      More /CHECKPOINT qualifiers.
58
59      V03-006 PCA0070      Paul C. Anagnostopoulos 31-Mar-1983
60      Remove the PROMPT clauses from the qualifiers added in
61      EAD0070.
62
63      V03-005 EAD0070      Elliott A. Drayton      29-Mar-1983
64      Add support for ana/error.
65
66      V03-004 WMC0003      Wayne Cardoza      25-Mar-1983
67      Add /OUTPUT for checkpoint
68
69      V03-003 WMC0002      Wayne Cardoza      10-Feb-1983
70      New checkpoint qualifiers
71
72      V03-002 MTR0001      Mike Rhodes      3-Jan-1983
73      Add list to PATTERN keyword (ANALYZE/MEDIA/EXERCISE).
74
75      V03-001 WMC0001      Wayne Cardoza      28-Dec-1982
76      Add /CHECKPOINT qualifiers
77
78      define syntax analyze_crash_dump
79      image sda
80      parameter p1,label=dump file,prompt='Dump File',value(required,type=$infile)
81      qualifier CRASH_DUMP,default
82      qualifier SYSTEM
83      qualifier SYMBOLS,value(required,type=$infile)
84
85      define syntax analyze_disk_structure
86      image verify
87      parameter p1,label=device,prompt='Device',value(required,type=$device)
88      qualifier CONFIRM
89      qualifier DISK_STRUCTURE,default
90      qualifier LIST,value(type=$outfile)
91      qualifier READ_CHECK
92      qualifier REPAIR
93      qualifier USAGE,value(type=$outfile)
94
95      define type SUMMARY_TYPE_KEYWORDS
96      keyword DEVICE
97      keyword ENTRY
98      keyword HISTOGRAM
99      keyword MEMORY
100     keyword VOLUME
101
102     define type ENTRY_KEYWORDS
103     keyword END,          value(type=$number)
104     keyword START,       value(type=$number)
105
106     define syntax analyze_error_log
107     image SYSSYSTEM:ERF.EXE
108     parameter p1,label=file_specs,
109     value(list,type=$infile,default='SYS$ERRORLOG:ERRLOG.SYS')
110     qualifier BEFORE,    value(type=$datetime),nonnegatable
111     qualifier BINARY,    value(type=$outfile)
112     qualifier BRIEF,     nonnegatable
```

```
113     qualifier ENTRY,                value(required,  
114                                     type=ENTRY KEYWORDS,list),  
115                                     nonnegatable  
116     qualifier EXCLUDE,             value(required,list),  
117                                     nonnegatable  
118     qualifier FULL,                negatable  
119     qualifier INCLUDE,             value(required,list),  
120                                     nonnegatable  
121     qualifier LOG,                 negatable  
122     qualifier OUTPUT,              default,value(default=SYSS$OUTPUT),  
123                                     nonnegatable  
124     qualifier PAGE,                negatable  
125     qualifier REJECTED,            value(type=$outfile)  
126     qualifier REGISTER_DUMP,       nonnegatable  
127     qualifier SID_REGISTER,        value(required,  
128                                     type=$number),nonnegatable  
129     qualifier SINCE,               value(default=today,type=$datetime),  
130                                     nonnegatable  
131     qualifier STATISTICS,          nonnegatable  
132     qualifier SUMMARY,             value(type=SUMMARY_TYPE_KEYWORDS,list),  
133                                     nonnegatable  
134  
135 define syntax analyze_image  
136     image analyzeobj  
137     parameter p1,label=file_specs,prompt='File(s)',value(required,list,type=$infile)  
138     qualifier FIXUP_SECTION,placement=positional  
139     qualifier GST,placement=positional  
140     qualifier HEADER,placement=positional  
141     qualifier OUTPUT,default,value(default="SYSS$OUTPUT",type=$outfile)  
142     qualifier IMAGE,default  
143     qualifier INTERACTIVE  
144     qualifier PATCH_TEXT,placement=positional  
145  
146 define syntax analyze_rms_file  
147     image analyzrms  
148     parameter p1,label=file_specs,prompt='File(s)',value(required,list,type=$infile)  
149     qualifier CHECK  
150     qualifier FDL  
151     qualifier INTERACTIVE  
152     qualifier STATISTICS  
153     qualifier SUMMARY  
154     qualifier OUTPUT,default,value(type=$outfile)  
155  
156 define syntax analyze_system  
157     image sda  
158     noparameters  
159  
160 :  
161 : Keyword definitions for ANALYZE/MEDIA  
162 :  
163 define type exer_keywords  
164     keyword FULL  
165     keyword KEEP, negatable  
166     keyword PATTERN, value (list)  
167  
168 define type show_keywords
```



```
169 keyword BEFORE, negatable
170 keyword AFTER, negatable
171
172 define syntax analyze_media
173 image analyzbad
174 parameter p1, label=device, prompt='Device', value (required, type=$device)
175
176 qualifier BAD_BLOCKS, nonnegatable, value (list)
177 qualifier EXERCISE, value (list, type=exer_keywords)
178 qualifier LOG
179 qualifier OUTPUT, value (default='SYSS$OUTPUT', type=$outfile)
180 qualifier RETRY
181 qualifier SHOW, nonnegatable, value (list, type=show_keywords)
182
183 : **JNL** define syntax analyze_checkpoint
184 : **JNL** image chkanal
185 : **JNL** parameter p1, prompt='File', value(required, type=$infile), label=chkpnt
186 : **JNL** qualifier full
187 : **JNL** qualifier quota
188 : **JNL** qualifier interactive
189 : **JNL** qualifier database
190 : **JNL** qualifier output, value(default='SYSS$OUTPUT', type=$outfile)
191 : **JNL** qualifier record, value(required)
192 : **JNL** qualifier create, value(type=$outfile)
193
194 define syntax analyze_process_dump
195 image analimdmp
196 parameter p1, prompt='File', value(required, type=$infile)
197 qualifier image, value(type=$outfile)
198 qualifier noimage
199 qualifier interactive
200 qualifier full
201 qualifier miscellaneous
202 qualifier relocation
203 qualifier output, value(default='SYSS$OUTPUT', type=$outfile)
204
205 : Keyword definitions for ANALYZE/AUDIT
206
207 : **JNL** define type FILE_ACCESS_KEYWORDS
208 : **JNL** keyword BYPASS, value( list, type=ACCESS_TYPE_KEYWORDS )
209 : **JNL** keyword FAILURE, value( list, type=ACCESS_TYPE_KEYWORDS )
210 : **JNL** keyword GRPPRV, value( list, type=ACCESS_TYPE_KEYWORDS )
211 : **JNL** keyword READALL, value( list, type=ACCESS_TYPE_KEYWORDS )
212 : **JNL** keyword SUCCESS, value( list, type=ACCESS_TYPE_KEYWORDS )
213 : **JNL** keyword SYSPRV, value( list, type=ACCESS_TYPE_KEYWORDS )
214 : **JNL** keyword RECORD_MANAGEMENT, value( list, type=RMS_SERVICES )
215
216 : **JNL** define type ACCESS_TYPE_KEYWORDS
217 : **JNL** keyword READ
218 : **JNL** keyword WRITE
219 : **JNL** keyword EXECUTE
220 : **JNL** keyword DELETE
221 : **JNL** keyword OWNER
222
223 : **JNL** define type RMS_SERVICES
224 : **JNL** keyword CLOSE
```

```
225 : **JNL**      keyword CREATE
226 : **JNL**      keyword DELETE
227 : **JNL**      keyword EXTEND
228 : **JNL**      keyword FIND
229 : **JNL**      keyword GET
230 : **JNL**      keyword OPEN
231 : **JNL**      keyword PUT
232 : **JNL**      keyword READ
233 : **JNL**      keyword TRUNCATE
234 : **JNL**      keyword UPDATE
235 : **JNL**      keyword WRITE
236 :
237 : **JNL**      define type LOGIN_KEYWORDS
238 : **JNL**      keyword BATCH
239 : **JNL**      keyword DIALUP
240 : **JNL**      keyword FAILURES
241 : **JNL**      keyword LOCAL
242 : **JNL**      keyword NETWORK
243 : **JNL**      keyword PROCESS
244 :
245 : **JNL**      define type LOGOUT_KEYWORDS
246 : **JNL**      keyword BATCH
247 : **JNL**      keyword DIALUP
248 : **JNL**      keyword LOCAL
249 : **JNL**      keyword NETWORK
250 : **JNL**      keyword PROCESS
251 :
252 : **JNL**      define type JOURNAL_TYPE_KEYWORDS
253 : **JNL**      keyword AT          default
254 : **JNL**      keyword AI
255 : **JNL**      keyword BI
256 : **JNL**      keyword RU
257 :
258 : **JNL**      define syntax analyze_audit
259 : **JNL**      image audit
260 : **JNL**      parameter p1,label=file_spec,value(list,type=$infile)
261 : **JNL**      qualifier ACL
262 : **JNL**      qualifier AUTHORIZATION
263 : **JNL**      qualifier BACKWARD,          nonnegatable
264 : **JNL**      qualifier BEFORE,          nonnegatable,value(default=TODAY,type=$datetime)
265 : **JNL**      qualifier FILE_ACCESS,    value(type=FILE_ACCESS_KEYWORDS,list)
266 : **JNL**      qualifier FORWARD,        nonnegatable,default
267 : **JNL**      qualifier FULL
268 : **JNL**      qualifier IDENTIFICATION,  value(list,type=$number,required)
269 : **JNL**      qualifier JOURNAL,        nonnegatable,value(list,type=$infile)
270 : **JNL**      qualifier LOGIN,          value(list,type=LOGIN_KEYWORDS)
271 : **JNL**      qualifier LOGOUT,         value(list,type=LOGOUT_KEYWORDS)
272 : **JNL**      qualifier MAILBOX_IO,     value(list,type=$device)
273 : **JNL**      qualifier MOUNT
274 : **JNL**      qualifier OUTPUT          nonnegatable,value(type=$outfile,default=sys$output),default
275 : **JNL**      qualifier SETPRV
276 : **JNL**      qualifier SINCE,          nonnegatable,value(default=TODAY,type=$datetime)
277 : **JNL**      qualifier TERMINAL_IO,   value(list,type=$device)
278 : **JNL**      qualifier TYPE,          value(required,type=JOURNAL_TYPE_KEYWORDS)
279 : **JNL**      qualifier UIC,           value(list,type=$uic)
280 :
```

```
281 !**JNL** disallow (BACKWARD and FORWARD)
282
283 ANALYZE
284
285 define verb ANALYZE
286     image analyzecjj
287     parameter p1,label=file_specs,prompt='File(s)',value(required,list,type=$infile)
288
289 !**JNL**     qualifier AUDIT,nonnegatable,syntax=analyze_audit
290     qualifier CRASH_DUMP,nonnegatable,syntax=analyze_crash_dump
291     qualifier DISK_STRUCTURE,nonnegatable,syntax=analyze_disk_structure
292     qualifier ERROR_LOG,nonnegatable,syntax=analyze_error_log
293     qualifier IMAGE,nonnegatable,syntax=analyze_image
294     qualifier MEDIA,nonnegatable,syntax=analyze_media
295     qualifier OBJECT,default,nonnegatable
296     qualifier RMS_FILE,nonnegatable,syntax=analyze_rms_file
297     qualifier SYSTEM,nonnegatable,syntax=analyze_system
298 !**JNL**     qualifier CHECKPOINT,nonnegatable,syntax=analyze_checkpoint
299     qualifier PROCESS_DUMP,nonnegatable,syntax=analyze_process_dump
300
301     qualifier DBG,placement=positional
302     qualifier EOM,placement=positional
303     qualifier GSD,placement=positional
304     qualifier INCLUDE,placement=local,value(default='',list)
305     qualifier INTERACTIVE
306     qualifier LNK,placement=positional
307     qualifier MHD,placement=positional
308     qualifier OUTPUT,default,value(default='SYSS$OUTPUT',type=$outfile)
309     qualifier TBT,placement=positional
310     qualifier TIR,placement=positional
```

\$ SET COMMAND SRCS:ACC.CLD,ANALYZE.CLD,BACKUP.CLD,CHECKSUM.CLD,CONVERT.CLD,COPY.CLD,CREATE.CLD,DCLINT.CLD,DELETE.CLD,DIFF.CLD,DIRECT

```
1 module BACKUPCMD
2
3   Version:   'V04-000'
4
5     V03-005 LY0515      Larry Yetto      24-JUL-1984 11:08
6       Do not allow both /RECORD and /DELETE on the same line
7
8     V03-004 JEP0004    J. Eric Pollack,  21-Aug-1983
9       Revise /ENCRYPT syntax
10
11    V03-003 JEP0003    J. Eric Pollack,  23-Apr-1983 10:53
12      Add support for encrypted savesets.
13
14    V03-002 MLJ0108    Martin L. Jack   13-Apr-1983
15      Remove $DATETIME from BEFORE and SINCE.
16
17    V03-001 ACG0314    Andrew C. Goldstein 10-Feb-1983 22:24
18      Make /NOREWIND and /NOINITIALIZE default for save sets
19
20  define type encryp_val
21    keyword NAME      value(type=$outlog)
22    keyword ALGORITHM value(type=$outlog,default='DESCBC')
23    keyword VALUE     value(list)
24  define syntax BACKUP_LIST
25    parameter P1
26      label=INPUTS
27      prompt='From'
28      value(list,type=$infile)
29    parameter P2
30      label=OUTPUTS
31      prompt='To'
32      value(list,type=$outfile)
33  define verb BACKUP
34    parameter P1
35      label=INPUTS
36      prompt='From'
37      value(required,list,type=$infile)
38    parameter P2
39      label=OUTPUTS
40      prompt='To'
41      value(required,list,type=$outfile)
42    qualifier ANALYZE
43    qualifier BACKUP
44    qualifier BEFORE
45      value(required)
46    qualifier BLOCK SIZE
47      value(required)
48    qualifier BRIEF
49    qualifier BUFFER COUNT
50      value(required)
51    qualifier COMMENT
52      value(required)
53    qualifier COMPARE
54    qualifier CONFIRM
55    qualifier CRC
56    default
```

```
57 qualifier CREATED
58 qualifier DELETE
59 qualifier DENSITY
60 value(required)
61 qualifier ENCRYPT
62 value(list,type=encryp_val)
63 disallow ENCRYPT.NAME and ENCRYPT.VALUE
64 qualifier EXCLUDE
65 value(required,list,type=$infile)
66 qualifier EXPIRED
67 qualifier FAST
68 qualifier FULL
69 qualifier GROUP SIZE
70 value(required)
71 qualifier IGNORE
72 value(required,list,type=$infile)
73 qualifier IMAGE
74 qualifier INCREMENTAL
75 qualifier INITIALIZE
76 qualifier INTERCHANGE
77 qualifier JOURNAL
78 value(type=$outfile)
79 qualifier LABEL
80 value(required,list)
81 qualifier LIST
82 value
83 syntax=BACKUP_LIST
84 qualifier LOG
85 qualifier MODIFIED
86 qualifier NEW VERSION
87 qualifier OVERLAY
88 qualifier OWNER_UIC
89 placement=local
90 value(type=$uic)
91 qualifier PHYSICAL
92 qualifier PROTECTION
93 placement=positional
94 value(list)
95 qualifier RECORD
96 qualifier REPLACE
97 qualifier REWIND
98 qualifier SAVE_SET
99 placement=local
100 qualifier SELECT
101 value(required,list,type=$infile)
102 qualifier SINCE
103 value(required)
104 qualifier TRUNCATE
105 qualifier VERIFY
106 qualifier VOLUME
107 value(required)
108 disallow DELETE and RECORD
```

\$ SET COMMAND SRCS:ACC.CLD,ANALYZE.CLD,BACKUP.CLD,CHECKSUM.CLD,CONVERT.CLD,COPY.CLD,CREATE.CLD,DCLINT.CLD,DELETE.CLD,DIFF.CLD,DIRECT

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Version: 'V04-000'

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```
DEFINE VERB CHECKSUM  
  PARAMETER P1,LABEL=input,PROMPT='file',VALUE(REQUIRED)  
  QUALIFIER output, DEFAULT, VALUE(DEFAULT=SYSS$OUTPUT)  
  QUALIFIER image  
  QUALIFIER file
```

\$ SET COMMAND SRCS:ACC.CLD,ANALYZE.CLD,BACKUP.CLD,CHECKSUM.CLD,CONVERT.CLD,COPY.CLD,CREATE.CLD,DCLINT.CLD,DELETE.CLD,DIFF.CLD,DIRECT

```
1  ;
2  ; Version:  'V04-000'
3  ;
4  ;
5  define syntax reclaim
6  ;
7  image reclaim
8  ;
9  parameter p1,label=file_name,prompt='File',value(required,type=$infile)
10 qualifier statistics
11 ;
12 ;
13 define verb convert
14 ;
15 image convert
16 ;
17 parameter p1,label=infile,prompt='Input',value(required,list,type=$infile)
18 parameter p2,label=outfile,prompt='Output',value(required,type=$outfile)
19 ;
20 qualifier append
21 qualifier create,default
22 qualifier fdl,label=fdl,value(required,type=$infile),nonnegatable
23 qualifier exceptions_file,label=exception,value(default='SYS$OUTPUT',type=$infile),nonnegatable
24 qualifier exit
25 qualifier fast_load,default
26 qualifier fill_buckets
27 qualifier fixed_control
28 qualifier key,value(required,type=$number),nonnegatable
29 qualifier merge,nonnegatable
30 qualifier pad,value(default='%D0')
31 qualifier prologue,value(required,type=$number),nonnegatable
32 qualifier read_check
33 qualifier share
34 qualifier sort,default
35 qualifier statistics
36 qualifier truncate
37 qualifier work_files,value(required,type=$number),nonnegatable
38 qualifier write_check
39 qualifier reclaim,syntax=reclaim,nonnegatable
```

\$ SET COMMAND SRCS:ACC.CLD,ANALYZE.CLD,BACKUP.CLD,CHECKSUM.CLD,CONVERT.CLD,COPY.CLD,CREATE.CLD,DCLINT.CLD,DELETE.CLD,DIFF.CLD,DIRECT

```
1  |
2  |
3  |
4  |
5  | define type protection
6  |     keyword system,value
7  |     keyword group,value
8  |     keyword owner,value
9  |     keyword world,value
10 |
11 | define verb append
12 |     image copy
13 |     parameter p1, label=infile, prompt='From',
14 |         value(required,list,impcat,type=$infile)
15 |     parameter p2, label=outfile, prompt='To',
16 |         value(required,type=$outfile)
17 |     qualifier allocation, value(required), placement=positional
18 |     qualifier contiguous, placement=positional
19 |     qualifier extension, value(required), placement=positional
20 |     qualifier file_maximum, value(required,list), placement=positional
21 |     qualifier new_version,
22 |     qualifier protection, value(required,list,type=protection),
23 |         placement=positional
24 |     qualifier read_check, placement=positional
25 |     qualifier log
26 |     qualifier write_check, placement=positional
27 |     qualifier confirm
28 |     qualifier exclude,value(list)
29 |     qualifier before,value(default=today)
30 |     qualifier since,value(default=today)
31 |     qualifier created
32 |     qualifier modified
33 |     qualifier expired
34 |     qualifier backup
35 |     qualifier by_owner,value(type=$uic)
36 |
37 | define syntax copy_using_pip
38 |     image backtrans
39 |
40 | define verb copy
41 |     image copy
42 |     parameter p1, label=infile, prompt='From',
43 |         value(required,list,impcat,type=$infile)
44 |     parameter p2, label=outfile, prompt='To',
45 |         value(required,type=$outfile)
46 |     qualifier allocation, value(required,list), placement=positional
47 |     qualifier concatenate, default
48 |     qualifier contiguous, placement=positional
49 |     qualifier extension, value(required), placement=positional
50 |     qualifier file_maximum, value(required), placement=positional
51 |     qualifier overlay, placement=positional
52 |     qualifier protection, value(required,list,type=protection),
53 |         placement=positional
54 |     qualifier read_check, placement=positional
55 |     qualifier replace, placement=positional
56 |     qualifier log
```



14-JAN-1985 10:57  
14-JAN-1985 10:55

VAX/VMS Command Definition Utility (V4-001) Page 2  
\_S255SDUA18:[CLD.BUGSRC]COPY.CLD;1 (1)

57       qualifier volume,       value(required)  
58       qualifier write\_check, placement=positional  
59       qualifier truncate,    placement=positional  
60       qualifier confirm  
61       qualifier exclude,value(list)  
62       qualifier before,value(default=today)  
63       qualifier since,value(default=today)  
64       qualifier created  
65       qualifier modified  
66       qualifier expired  
67       qualifier backup  
68       qualifier by\_owner.value(type=\$uic)

\$ SET COMMAND SRCS:ACC.CLD,ANALYZE.CLD,BACKUP.CLD,CHECKSUM.CLD,CONVERT.CLD,COPY.CLD,CREATE.CLD,DCLINT.CLD,DELETE.CLD,DIFF.CLD,DIRECT

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Version: 'V04-000'

- V03-005 HWS0004 Harold Schultz 07-Feb-1984  
Changed syntax of /LOGICAL\_NAME\_TABLE qualifier to /NAME\_TABLE. Also added additional protection qualifier when creating a logical name table of the form: CREATE/NAME\_TABLE/PROTECTION=(SY:RWED,OW:RWED,...)  
Add /LOG qualifier to logical name table creation table.
- V03-004 PCG0002 Peter George 31-May-1983  
Add PREFIX to CREATE/LOGICAL\_NAME\_TABLE.
- V03-003 PCG0001 Peter George 27-May-1983  
Add CREATE/LOGICAL\_NAME\_TABLE.
- V03-002 MAJ0001 Melanie Johnson 25-May-1983  
These definitions are being added to MCR with the exception of CREATE/FDL, which is being flagged for MCR to ignore it.
- V03-001 SHZ0001 Stephen H. Zalewski 16-May-1983  
Modified CREATE qualifiers.

```
define type protection
keyword system,value
keyword group,value
keyword owner,value
keyword world,value

define syntax fdl
image createfdl
parameter p1,label=file_name,prompt=" ",value(type=$outfile)

define type attribute_keywords
keyword confine
keyword no_alias
keyword supersede

define syntax name_table
cliroutine ctable
prefix cli$K_cret
parameter p1,prompt="Table name",value(required)
qualifier user_mode
qualifier supervisor_mode
qualifier executive_mode
qualifier attributes,value(required,type=attribute_keywords,list)
qualifier parent_table,value(required)
qualifier quota,value(required,type=$number)
qualifier protection,value(required,list,type=protection)
qualifier log

define verb create
image create
parameter p1,prompt="File",value(required,list,impcat,type=$outfile),label=output
qualifier directory
```

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14-JAN-1985 10:57  
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57       qualifier owner\_uic,     value(type=\$uic,required)  
58       qualifier protection,   value(required,(list,type=protection))  
59       qualifier log  
60       qualifier version\_limit,value(required)  
61       qualifier volume,       value(required)  
62       qualifier fdl,label=fdl\_file,value(type=\$infile,required),cliflags(mcrignore),syntax=fdl  
63       qualifier name\_table,syntax=name\_table

\$ SET COMMAND SRC\$.ACC.CLD,ANALYZE.CLD,BACKUP.CLD,CHECKSUM.CLD,CONVERT.CLD,COPY.CLD,CREATE.CLD,DCLINT.CLD,DELETE.CLD,DIFF.CLD,DIRECT

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Version: 'V04-001'

- V04-001 HWS0113 Harold Schultz 01-Nov-1984  
Incorporate DHCF and BTS qualifiers for DEFINE/KEY
- V03-030 HWS0068 Harold Schultz 24-May-1984  
Change WRITE/SYMBOL second parameter type to  
\$QUOTED\_STRING.
- V03-029 HWS0040 Harold Schultz 26-Mar-1984  
Change ALLOCATE syntax to ALLOCATE /GENERIC DEV  
Add READ/TIME\_OUT=n.  
Add CLOSE/LOG.
- V03-028 PCG0016 Peter George 23-Mar-1984  
Add /JOB qualifier to logical name commands.
- V03-027 HWS0025 Harold Schultz 09-Mar-1984  
Add /SYMBOL to WRITE command
- V03-026 PCG0015 Peter George 01-Dec-1983  
Add DEFINE/KEY/ERASE.
- V03-025 MLJ0025 Martin L. Jack 23-Aug-1983  
Add DEFINE/FORM/PAGE\_SETUP.
- V03-024 MLJ0024 Martin L. Jack 29-Jul-1983  
Enhance DEFINE/FORM.
- V03-023 PCG0014 Peter George 27-Jul-1983  
Remove privilege list.  
Remove X-form of logical name commands.
- V03-022 PCG0013 Peter George 21-Jun-1983  
Make second WRITE parameter \$EXPRESSION.
- V03-021 PCG0012 Peter George 21-Jun-1983  
Add /CONTINUE to CONNECT and DISCONNECT.
- V03-020 PCG0011 Peter George 21-Jun-1983  
Add CONNECT and DISCONNECT.
- V03-019 PCG0010 Peter George 31-May-1983  
Add PREFIX to XDEFINE and XALLOCATE.
- V03-018 MLJ0018 Martin L. Jack 27-May-1983  
Add DEFINE/FORM and DEFINE/CHARACTERISTIC.
- V03-017 PCG0008 Peter George 27-May-1983  
Add SECURITY priv.  
Add XDEFINE, XASSIGN, XALLOCATE, XDALLOCATE, XDEASSIGN.
- V03-016 PCG0007 Peter George 30-Apr-1983  
Add /LO. to ALLOCATE, ASSIGN, DEFINE.

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14-JAN-1985 10:57  
14-JAN-1985 10:55

VAX/VMS Command Definition Utility (V4-001)  
\_S255SDUA18:[CLD.BUGSRC]DCLINT.CLD;1 (1)

Page 2

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57 V03-015 MLJ0015 Martin L. Jack 27-Apr-1983  
58 Changes to STOP/QUEUE for new QUEMAN image.  
59  
60 V03-014 PRB0175 Paul Beck 27-APR-1983 15:50:39  
61 Add TMPJNL, PRMJNL privileges.  
62  
63 V03-013 PCG0006 Peter George 10-Apr-1983  
64 Modify RECALL, ALLOCATE.  
65 Create RUN.CLD.  
66  
67 V03-012 PCG0005 Peter George 28-Mar-1983  
68 Add DEFINE/KEY, RECALL.  
69  
70 V03-011 PCA1008 Paul C. Anagnostopoulos 25-Mar-1983  
71 Make all necessary changes for new CDU.  
72  
73 V03-010 WMC0010 Wayne Cardoza 07-Mar-1983  
74 New RUN/CHECK qualifier  
75  
76 V03-009 PCA1008 Paul C. Anagnostopoulos 4-Mar-1983  
77 Put back the PREFIX clause for the RUN verb.  
78  
79 V03-008 MLJ0008 Martin L. Jack 01-Mar-1983  
80 Changes for new QUEMAN image.  
81  
82 V03-007 PCA1008 Paul C. Anagnostopoulos 25-Feb-1983  
83 Clean up various things.  
84  
85 V03-006 PCG0004 Peter George 24-Feb-1983  
86 Specify NOSTAT for appropriate verbs.  
87  
88 V03-005 PCG0003 Peter George 05-Jan-1983  
89 Add READ/MATCH  
90  
91 V03-004 PCG0002 Peter George 15-Dec-1982  
92 Remove HELP  
93  
94 V03-003 PCG0001 Peter George 20-Aug-1982  
95 Add CANCEL  
96  
97 V03-002 WMC0001 Wayne Cardoza 11-Aug-1982  
98 Add RUN/CHECKPOINT, RUN/RESTART  
99  
100 V03-001 DWT0053 David Thiel 15-Jul-1982  
101 Allow negated privileges  
102 Add commands previously defined in DATABASE.MAR  
103  
104 define verb allocate  
105 cliroutine allocate  
106 prefix clisk_allo  
107 parameter p1,prompt='Device',value(required,list,type=$device)  
108 parameter p2,prompt='Log name',value(type=$outlog)  
109 qualifier generic  
110 qualifier log  
111  
112 define syntax merge_queue
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113     image queman
114
115 define type tran_attr
116     keyword concealed
117     keyword terminal
118
119 define type name_attr
120     keyword confine
121     keyword no_alias
122
123 define verb assign
124     cliroutine assign
125     parameter p1,prompt='Device',value(required,type=$infile,list)
126     parameter p2,prompt='Log name',value(required,type=$outlog)
127     qualifier system : Must be #1.
128     qualifier group : Must be #2.
129     qualifier job : Must be #3.
130     qualifier process : Must be #4.
131     qualifier user_mode : Must be #5.
132     qualifier supervisor_mode : Must be #6.
133     qualifier executive_mode : Must be #7.
134     qualifier table,value(required) : Must be #8.
135     qualifier log : Must be #9.
136     qualifier name_attributes, : Must be #10.
137         value(type=name_attr,list)
138     qualifier translation_attributes, ! Must be #11.
139         placement=positional,
140         value(type=tran_attr,list)
141     qualifier queue,syntax=merge_queue
142     qualifier merge,syntax=merge_queue
143
144 define verb cancel
145     cliroutine cancel
146     parameter p1,label=p1,prompt='File',value(type=$process)
147     qualifier identification,value(required)
148
149 define verb close
150     prefix clisk clos_
151     cliroutine close
152     parameter p1,prompt='Log name',value(required,type=$inlog)
153     qualifier end_of_file,value(required) ! /EOF and /ERROR must be
154     qualifier error,value(required) ! first for all file commands.
155     qualifier log
156
157 define verb connect
158     prefix clisk conn
159     cliroutine connect
160     parameter p1,prompt='Terminal name',value(required,type=$device)
161     qualifier continue
162     qualifier logout
163     disallow (continue and logout)
164
165 define verb continue
166     synonym c
167     cliroutine continue
168     cliflags(abbreviate,nostatus)
```

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169
170 define syntax deallocate_all_devices
171     noparameters
172
173 define verb deallocate
174     cliroutine deallocat
175     parameter p1,prompt='Device',value(required,type=$device)
176     qualifier all,syntax=deallocate_all_devices
177
178 define syntax deassign_all_names
179     noparameters
180
181 define syntax deassign_queue
182     image queman
183
184 define verb deassign
185     cliroutine deassign
186     parameter p1,prompt='Log name',value(required,type=$inlog)
187     qualifier system                : Must be #1.
188     qualifier group                 : Must be #2.
189     qualifier job                   : Must be #3.
190     qualifier process               : Must be #4.
191     qualifier user_mode              : Must be #5.
192     qualifier supervisor_mode       : Must be #6.
193     qualifier executive_mode        : Must be #7.
194     qualifier table,value(required) : Must be #8.
195     qualifier all,syntax=deassign_all_names : Must be #9.
196     qualifier queue,syntax=deassign_queue
197
198 define verb debug
199     cliroutine debug
200
201 define verb deck
202     cliroutine deck
203     cliflags(nostatus)
204     qualifier dollars,          value
205
206 define syntax define_characteristic
207     image queman
208     parameter p1,prompt='Char name',value(required)
209     parameter p2,prompt='Char number',value(required)
210
211 define type form_margin
212     keyword bottom,          value(required)
213     keyword left,           value(required)
214     keyword right,          value(required)
215     keyword top,            value(required)
216
217 define syntax define_form
218     image queman
219     parameter p1,prompt='Form name',value(required)
220     parameter p2,prompt='Form number',value(required)
221     qualifier characteristic
222     qualifier description,    nonnegatable,value(required)
223     qualifier length,         nonnegatable,value(required)
224     qualifier margin,         nonnegatable,value(required,list,type=form_margin)
```

```
225     qualifier page_setup,    value(required,list)
226     qualifier setup,        value(required,list)
227     qualifier sheet_feed
228     qualifier stock,        nonnegatable,value(required)
229     qualifier truncate
230     qualifier width,        nonnegatable,value(required)
231     qualifier wrap
232
233 define syntax define_dhcf_key
234     image dhcfkey
235     parameter p1,prompt='Key name',value(required)
236     parameter p2,prompt='Equivalence name',value(required)
237     qualifier log, default
238     qualifier permanent
239     qualifier table, nonnegatable, value(required),
240         syntax=define_dhcf_table
241     disallow permanent
242
243 define syntax define_dhcf_table
244     noparameters
245
246 define syntax define_bts_key
247     image btskey
248     parameter p1,prompt='Key name',value(required)
249     parameter p2,prompt='Equivalence name',value(required)
250     qualifier log, default
251     qualifier permanent
252     qualifier table, nonnegatable, value(required),
253         syntax=define_bts_table
254     disallow permanent and (not table)
255
256 define syntax define_bts_table
257     noparameters
258
259 define syntax define_key
260     prefix clisk_defk_
261     cliroutine defkey
262     parameter p1,prompt='Key name',value(required)
263     parameter p2,prompt='Equivalence name',value(required)
264     qualifier echo
265     qualifier terminate
266     qualifier lock_state
267     qualifier if_state,value(required,list)
268     qualifier set_state,value(required)
269     qualifier log
270     qualifier erase
271     disallow (not lock_state and terminate and set_state)
272     disallow (lock_state and not set_state)
273     qualifier dhcf,syntax=define_dhcf_key
274     qualifier bts,syntax=define_bts_key
275
276
277 define verb define
278     cliroutine define
279     prefix clisk_defi_
280     parameter p1,prompt='Log name',value(required,type=$outlog)
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281     parameter p2,prompt='Equ name',value(required,type=$infile,list)
282     qualifier system                               : Must be #1.
283     qualifier group                               : Must be #2.
284     qualifier job                                 : Must be #3.
285     qualifier process                             : Must be #4.
286     qualifier user_mode                           : Must be #5.
287     qualifier supervisor_mode                    : Must be #6.
288     qualifier executive_mode                      : Must be #7.
289     qualifier table,value(required)              : Must be #8.
290     qualifier log                                  : Must be #9.
291     qualifier name_attributes,                   : Must be #10.
292           value(type=name_attr,list)
293     qualifier translation_attributes,             : Must be #11.
294           placement=positional,
295           value(type=tran_attr,list)
296     qualifier key,syntax=define_key
297     qualifier characteristic,syntax=define_characteristic
298     qualifier form,syntax=define_form
299
300 ! DEPOSIT uses the same qualifiers as EXAMINE, and they must appear in the
301 ! same order.
302
303 define verb deposit
304     cliroutine deposit
305     cliflags(immediate,nostatus)
306     qualifier ascii,nonnegatable
307     qualifier byte,nonnegatable
308     qualifier decimal,nonnegatable
309     qualifier hexadecimal,nonnegatable
310     qualifier long,nonnegatable
311     qualifier octal,nonnegatable
312     qualifier word,nonnegatable
313
314 define verb disconnect
315     cliroutine disconnect
316     qualifier continue
317
318 define verb dsm
319     image dsm
320     cliflags(foreign)
321
322 define verb eod
323     cliroutine eod
324     cliflags(immediate,nostatus)
325
326 define verb eoj
327     cliroutine eoj
328
329 define verb examine
330     cliroutine examine
331     prefix clisk_exam
332     cliflags(immediate,nostatus)
333     qualifier ascii,nonnegatable
334     qualifier byte,nonnegatable
335     qualifier decimal,nonnegatable
336     qualifier hexadecimal,nonnegatable
```

```
337     qualifier long,nonnegatable
338     qualifier octal,nonnegatable
339     qualifier word,nonnegatable
340
341 define verb exit
342     cliroutine exit
343     cliflags(immediate)
344
345 define verb goto
346     cliroutine goto
347     cliflags(nostatus)
348     parameter p1,prompt="Label",value(required)
349
350 define verb if
351     cliroutine if
352     cliflags(immediate,nostatus)
353
354 define verb inquire
355     cliroutine inquire
356     prefix cli$k_inqu
357     cliflags(immediate)
358     qualifier      global,nonnegatable
359     qualifier      local,nonnegatable
360     qualifier      punctuation
361
362 define verb logout
363     cliroutine logout
364     qualifier brief
365     qualifier full
366     qualifier hangup
367
368 define verb mcr
369     cliroutine mcr
370     cliflags(foreign)
371
372 define verb on
373     cliroutine on
374     cliflags(immediate)
375
376 define type share_options
377     keyword read
378     keyword write
379
380 define verb open
381     cliroutine open
382     prefix cli$k_open
383     parameter p1,prompt="Log name",value(required,type=$outlog)
384     parameter p2,prompt="File",value(required,type=$infile)
385     qualifier end_of_file,value(required) ! Make /EOF=1, /ERROR=2 for
386     qualifier error,value(required) ! all file commands
387     qualifier read
388     qualifier write
389     qualifier share,value(type=share_options)
390     qualifier append
391     disallow (write and append)
392
```

```
393 define type match_keys
394     keyword eq
395     keyword ge
396     keyword gt
397
398 define verb read
399     cliroutine read
400     prefix clisk_read
401     parameter p1,prompt='Log name',value(required,type=$inlog)
402     parameter p2,prompt='Symbol',value(required,type=$outfile)
403         ! $outfile on p2 needed to preserve double quotes
404     qualifier end_of_file, value(required) ! Make /EOF=1, /ERROR=2 for
405     qualifier error, value(required) ! all file commands
406     qualifier key, value(required,list)
407     qualifier index, value(required)
408     qualifier delete
409     qualifier lock, default
410     qualifier prompt, value(required)
411     qualifier match, value(required,type=match_keys)
412     qualifier time_out, value(required,type=$number)
413
414 define syntax recall_all_commands
415     cliroutine recall
416     noparameters
417
418 define verb recall
419     cliroutine recall
420     parameter p1,value(type=$rest_of_line)
421     qualifier all,syntax=recall_all_commands
422
423 define syntax stop_cpu
424     image mp
425     noparameters
426
427 define syntax stop_queue
428     image queman
429     parameter p1,prompt='Queue',value(required)
430
431 define syntax stop_queue_manager
432     image queman
433     noparameters
434
435 define syntax write_symbol_out
436     parameter p1,prompt='Log name',value(required,type=$inlog)
437     parameter p2,prompt='Symbol',value(required,list,type=$quoted_string)
438
439
440 define verb stop
441     cliroutine stop
442     cliflags(nostatus)
443     parameter p1,prompt='Process',value(type=$process)
444     qualifier manager, nonnegatable,syntax=stop_queue_manager
445     qualifier abort, nonnegatable,syntax=stop_queue
446     qualifier next, nonnegatable,syntax=stop_queue
447     qualifier identification,nonnegatable,value(required)
448     qualifier requeue, nonnegatable,value,syntax=stop_queue
```

```
449     qualifier entry,          nonnegatable,value(required),syntax=stop_queue
450     qualifier priority,      nonnegatable,value(required),syntax=stop_queue
451     qualifier cpu,          nonnegatable,syntax=stop_cpu
452     qualifier queue,        nonnegatable,syntax=stop_queue
453     qualifier hold,         syntax=stop_queue
454     qualifier reset,        nonnegatable,syntax=stop_queue
455
456 define verb wait
457     cliroutine wait
458     cliflags(immediate,nostatus)
459
460 define verb write
461     cliroutine write
462     prefix cli$k_writ
463     parameter p1,prompt='Log name',value(required,type=$inlog)
464     parameter p2,prompt='Expression',value(required,list,type=$expression)
465     qualifier end_of_file, value(required) ! Make /EOF=1, /ERROR=2 for
466     qualifier error,        value(required) ! all file commands
467     qualifier update
468     qualifier symbols,      nonnegatable,syntax=write_symbol_out
```

\$ SET COMMAND SRCS:ACC.CLD,ANALYZE.CLD,BACKUP.CLD,CHECKSUM.CLD,CONVERT.CLD,COPY.CLD,CREATE.CLD,DCLINT.CLD,DELETE.CLD,DIFF.CLD,DIRECT

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14-JAN-1985 10:57  
14-JAN-1985 10:55

VAX/VMS Command Definition Utility (V4-001) Page 1  
\_S255\$DUA18:[CLD.BUGSRC]DELETE.CLD;1 (1)

Version: 'V04-001'

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V04-001 HWS0111 Harold Schultz 01-Nov-1984  
Incorporate DHCF and BTS qualifiers for DELETE/KEY

V03-014 PCB0002 Peter George 13-Mar-1984  
Remove last vestiges of old command interface  
from DELETE command definition. Add DEL/SYM/LOG.

V03-013 WMC0004 Wayne Cardoza 16-Jan-1984  
Remoce all CHPNT stuff

V03-012 SHZ0004 Stephen H. Zalewski 10-Dec-1983  
Remove the /ON qualifier from DELETE and PURGE as it  
will not be implemented.

V03-011 WMC0003 Wayne Cardoza 31-Aug-1983  
CHECKPOINT should use BY\_OWNER

V03-010 MLJ0010 Martin L. Jack 27-Mar-1983  
Add DELETE/FORM and DELETE/CHARACTERISTIC.

V03-009 PCG001 Peter George 28-Mar-1983  
Add DELETE/KEY.

V03-008 PCA1008 Paul C. Anagnostopoulos 25-Mar-1983  
Make all necessary changes for new CDU.

V03-007 SHZ003 Stephan H. Zalewski 12-Mar-1983  
Changed /BYOWNER to /BY\_OWNER for DELETE and PURGE.

V03-006 PCA1008 Paul C. Anagnostopoulos 10 Feb 1983  
Change /UIC qualifiers to /BYOWNER.

V03-005 SHZ0002 Stephen H. Zalewski 21-Jan-1983  
Add /ON qualifier to DELETE and PURGE.

V03-004 WMC0002 Wayne Cardoza 19-Jan-1983  
Add /LOG to DEL/CHECKPOINT

V03-003 WMC0001 Wayne Cardoza 05-Jan-1983  
New DEL/CHECKPOINT qualifiers.

V03-002 SHZ0001 Stephen H. Zalewski 5-Dec-1982  
Add a bunch of new qualifiers for both DELETE and PURGE.

V03-001 MAJ0001 Melanie Johnson 07-Oct-1982  
Put mcignore flag into cliflags construct.

define syntax delete\_characteristic  
image queman  
parameter p1,prompt='Char name',value(required)

define syntax delete\_form  
image queman

```
57     parameter p1,prompt='Form name',value(required`
58
59 define syntax delete_entry_or_queue
60     image queman
61     parameter p1,prompt='Queue',value(required)
62
63 define syntax delete_all_symbols
64     noparameters
65
66 define syntax delete_symbol
67     cliroutine delsym
68     prefix clisk_dlsy
69     parameter p1,prompt='Symbol',value(required,type=$insym)
70     qualifier all,          syntax=delete_all_symbols
71     qualifier global
72     qualifier local
73     qualifier log
74
75 !**JNL** define syntax delete_checkpoint
76 !**JNL**     image chkcancmd
77 !**JNL**     parameter p1,prompt='File',value(required,list,impcat,type=$infile)
78 !**JNL**     qualifier log
79 !**JNL**     qualifier created
80 !**JNL**     qualifier modified
81 !**JNL**     qualifier confirm
82 !**JNL**     qualifier since,          value(default=today,type=$datetime)
83 !**JNL**     qualifier before,        value(default=today,type=$datetime)
84 !**JNL**     qualifier expired
85 !**JNL**     qualifier by_owner,      value(type=$uic)
86 !**JNL**     qualifier exclude,      value(required,list)
87
88 define syntax delete_all_keys
89     noparameters
90
91 define syntax delete_bts_key
92     image btskey
93     qualifier log, default
94     qualifier all,syntax=delete_all_keys
95     parameter p1,prompt='Key name',value(required)
96
97 define syntax delete_dhcf_key
98     image dhcfkey
99     qualifier log, default
100    qualifier all,syntax=delete_all_keys
101    parameter p1,prompt='Key name',value(required)
102
103 define syntax delete_key
104     cliroutine delkey
105     prefix clisk_delk
106     parameter p1,prompt='Key name',value(required)
107     qualifier log
108     qualifier state,value(required,list)
109     qualifier all,syntax=delete_all_keys
110     qualifier BTS,syntax=delete_bts_key
111     qualifier DHCF,syntax=delete_dhcf_key
112
```

```
113 define verb delete
114     image delete
115     parameter p1,prompt='File',value(required,list,impcat,type=$infile), label=input
116     qualifier backup
117     qualifier before,          value(default=today,type=$datetime)
118     !**JNL**  qualifier checkpoint,  syntax=delete_checkpoint
119     qualifier confirm
120     qualifier created
121     qualifier entry,          value(required,list),syntax=delete_entry_or_queue
122     qualifier erase
123     qualifier exclude,       value(required,list)
124     qualifier expired
125     qualifier log
126     qualifier modified
127     qualifier queue,        cliflags(mcrignore),syntax=delete_entry_or_queue
128     qualifier since,        value(default=today,type=$datetime)
129     qualifier symbol,        cliflags(mcrignore),syntax=delete_symbol
130     qualifier by_owner,     value(type=$uic)
131     qualifier key,          cliflags(mcrignore),syntax=delete_key
132     qualifier characteristic,syntax=delete_characteristic
133     qualifier form,         syntax=delete_form
134
135 define verb purge
136     image delete
137     parameter p1,prompt='File',value(list,impcat,type=$infile,default='*.*'), label=input
138     qualifier backup
139     qualifier before,        value(default=today,type=$datetime)
140     qualifier confirm
141     qualifier created
142     qualifier erase
143     qualifier exclude,       value(required,list)
144     qualifier expired
145     qualifier keep,          value(required)
146     qualifier log
147     qualifier modified
148     qualifier since,        value(default=today,type=$datetime)
149     qualifier by_owner,     value(type=$uic)
```

\$ SET COMMAND SRC\$ : ACC.CLD,ANALYZE.CLD,BACKUP.CLD,CHECKSUM.CLD,CONVERT.CLD,COPY.CLD,CREATE.CLD,DCLINT.CLD,DELETE.CLD,DIFF.CLD,DIRECT

\$ \$

```
1 MODULE dif_command
2
3 Version: 'V04-000'
4
5 V03-001 PCG0001 Peter George 30-Mar-1983
6 Use CLI keyword parsing.
7
8
9 define type ignore_keywords
10 keyword blank_lines
11 keyword comments
12 keyword form_feeds
13 keyword header,value(default=2,type=$number)
14 keyword trailing_spaces
15 keyword spacing
16 keyword edited,default
17 keyword exact
18 keyword pretty
19
20 define type mode_keywords
21 keyword ascii,default
22 keyword hexadecimal
23 keyword octal
24
25 define type separated_keywords
26 keyword master,default
27 keyword revision,default
28
29 define verb differences
30 image diff
31 parameter p1,prompt='File 1',value(required,list,impcat,type=$infile),label=input1
32 parameter p2,prompt='File 2',value(type=$infile),label=input2
33 qualifier change_bar, placement=local,value(list)
34 qualifier comment_delimiters,value(list)
35 qualifier ignore, default,value(list,type=ignore_keywords)
36 qualifier line_width, value(required,type=$number)
37 qualifier match, value(required,type=$number)
38 qualifier maximum_differences,value(required,type=$number)
39 qualifier merged, value(type=$number)
40 qualifier mode, default,value(list,type=mode_keywords)
41 qualifier output, value(type=$outfile)
42 qualifier parallel, value(type=$number)
43 qualifier separated, value(list,type=separated_keywords)
44 qualifier slp
45 qualifier width, value(required,type=$number)
46 qualifier window, value(required,type=$number)
47 qualifier number, default
48
49 disallow (slp AND (merged OR parallel OR separated OR change_bar OR
50 hexadecimal OR octal OR line_width OR width OR
51 pretty OR edited OR number))
```

\$ SET COMMAND SRC\$:ACC.CLD,ANALYZE.CLD,BACKUP.CLD,CHECKSUM.CLD,CONVERT.CLD,COPY.CLD,CREATE.CLD,DCLINT.CLD,DELETE.CLD,DIFF.CLD,DIRECT

\$ S



```
1  : DIRECTORY.CLD
2
3  Version:  'V04-000'
4
5  Modification history:
6
7      V03-002 LMP0276      L. Mark Pilant,      11-Jul-1984  11:43
8          Make applicable qualifiers negatable. Also, remove
9          the default value for the /OUTPUT qualifier as it is
10         defaulted in the DIRECTORY image.
11
12      V03-001 MCN0173      Maria del C. Nasr      25-Jun-1984
13          Make the /OUTPUT qualifier default to SYS$OUTPUT, and
14          negatable.
15
16  define type date_options
17      keyword all,          nonnegatable
18      keyword created,     default,nonnegatable
19      keyword expired,     nonnegatable
20      keyword modified,    nonnegatable
21      keyword backup,      nonnegatable
22
23  define type size_options
24      keyword all,          nonnegatable
25      keyword allocation,  nonnegatable
26      keyword used,        default,nonnegatable
27
28  define type width_options
29      keyword display,     default,value(default=0),nonnegatable
30      keyword filename,   default,value(default=19),nonnegatable
31      keyword owner,      default,value(default=20),nonnegatable
32      keyword size,       default,value(default=6),nonnegatable
33
34  define type sel_size_options
35      keyword minimum_size, default,value(default=0),nonnegatable
36      keyword maximum_size, default,value(default=1073741823),nonnegatable
37
38  define type select_options
39      keyword size,        default,value(list,type=sel_size_options),nonnegatable
40      keyword acl,         nonnegatable
41
42  define type owner_options
43      keyword identifier
44
45  define verb directory
46      image directory
47      parameter pl,prompt='File',value(list,mpcat,type=$infile),label=INPUT
48      qualifier acl
49      qualifier backup
50      qualifier before,    value(default=TOD$r,type=$datetime)
51      qualifier brief,     default,nonnegatable
52      qualifier by_owner,  value(type=$uic)
53      qualifier columns,   default,value(default=4)
54      qualifier created
55      qualifier date,      value(list,type=date_options)
56      qualifier exclude,   value(required,list)
```

K 9  
14-JAN-1985 10:57  
14-JAN-1985 10:55

VAX/VMS Command Definition Utility (V4-001)  
\_S255SDUA18:[CLD.BUGSRC]DIRECTORY.CLD;1 (1)

Page 2

```
57   qualifier expired
58   qualifier file_id
59   qualifier full
60   qualifier grand_total
61   qualifier heading,      default
62   qualifier modified
63   qualifier output,      default,value(type=$file)
64   qualifier owner,      value(type=owner_options)
65   qualifier printer
66   qualifier protection
67   qualifier security
68   qualifier select,      value(required,list,type=select_options)
69   qualifier since,      value(default=today,type=$datetime)
70   qualifier size,      value(list,type=size_options)
71   qualifier total
72   qualifier trailing,    default
73   qualifier versions,    value(required)
74   qualifier width,      default,value(list,type=width_options)
```

\$ SET COMMAND SRC\$ : ACC.CLD,ANALYZE.CLD,BACKUP.CLD,CHECKSUM.CLD,CONVERT.CLD,COPY.CLD,CREATE.CLD,CCLINT.CLD,DELETE.CLD,DIFF.CLD,DIRECT

14-JAN-1985 10:57  
14-JAN-1985 10:55

VAX/VMS Command Definition Utility (V4-001)  
\_S25' \$DUA18:[CLD.BUGSRC]DISMOUNT.CLD;1 (1)

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:  
Version: 'V04-000'  
:  
V03-004 HH0004 Hai Huang 28-Feb-1984  
Add DISMOUNT CLUSTER qualifier.  
:  
V03-003 HH0003 Hai Huang 16-Feb-1983  
Add DISMOUNT ABORT qualifier.  
:  
V03-002 MCN0135 Maria del C. Nasr 31-Oct-1983  
Eliminate prefix clause, since it is not needed with  
the new CLI interface.  
:  
V03-001 PCA1008 Paul C. Anagnostopoulos 10 Feb 1983  
Remove the MCR DMO verb name, because the DMO command has  
become a separate CLD.  
Add a comment about the equivalent CLD for MCR.  
:  
! Don't forget the DMO.CLD file. It contains an equivalent set of  
! definitions for MCR which must also be enhanced.  
define verb dismount  
image dismount  
parameter p1,prompt='Device',value(required,type=$device),label=device  
qualifier unload,default  
qualifier unit  
qualifier abort  
qualifier cluster  
:  
$ SET COMMAND SRC$=ACC.CLD,ANALYZE.CLD,BACKUP.CLD,CHECKSUM.CLD,CONVERT.CLD,COPY.CLD,CREATE.CLD,DCLINT.CLD,DELETE.CLD,DIFF.CLD,DIRECT
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M 9  
14-JAN-1985 10:57  
14-JAN-1985 10:55

VAX/VMS Command Definition Utility (v4-001)  
\_S255SDUA18:[CLD.BUGSRC]DUMP.CLD;1 (1)

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Version: 'V04-000'  
SHZ0001 Stephen H. Zalewski 12-Apr-1984  
Move all checks for conflicting qualifiers from DUMP image  
to the CLD.

define type dump\_blocks  
keyword start, value(type=\$number)  
keyword end, value(type=\$number)  
keyword count, value(type=\$number)

define verb dump  
parameter p1,prompt='File',value(required,type=\$infile),label=input  
qualifier allocated  
qualifier ascii  
qualifier blocks, value(list,type=dump\_blocks)  
qualifier byte  
qualifier decimal  
qualifier file\_head  
qualifier formatted, default  
qualifier header  
qualifier hexadecimal  
qualifier longword  
qualifier number, value(type=\$number)  
qualifier octal  
qualifier output, value(type=\$outfile)  
qualifier printer  
qualifier records, value(list,type=dump\_blocks)  
qualifier word

disallow any2(octal,decimal,hexadecimal)  
disallow any2(byte,word,longword)  
disallow records and blocks  
disallow printer and output  
disallow records and allocated  
disallow blocks.end and blocks.count  
disallow records.end and records.count

\$ SET COMMAND SRC\$ : ACC.CLD,ANALYZE.CLD,BACKUP.CLD,CHECKSUM.CLD,CONVERT.CLD,COPY.CLD,CREATE.CLD,DCLINT.CLD,DELETE.CLD,DIFF.CLD,DIRECT

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Version: 'V04-000'

- V03-012 PCB000z Peter George 13-Mar-1984  
Remove last vestiges of old command inteface.
- V03-011 RRB0012 Rowland R. Bradley 04-Jan-1984  
Disallow /NOINTERACTIVE with /DISPLAY, /CREATE, /RESP,  
/SCRIPT, /NUMBER\_KEYS and/or /PRGMPTING.
- V03-010 LMP0185 L. Mark Pilant, 31-Jan-1984 11:31  
Add support for the EDIT/ACL/OBJECT=type command.
- V03-009 DLB0001 David Ballenger 29-Jul-1983  
Add separate syntax definition for EDIT/SLP and comment  
out qualifiers, etc. for EDIT/SOS. The EDIT/SOS Jefinitions  
can be "permanently" removed at a later date.
- V03-008 MHB0096 Mark Bramhall 28-Jul-1983  
Add EDIT/TECO.
- V03-007 PCG0001 Peter George 27-Jul-1983  
Add EDIT/DPE.
- V03-006 LMP0107 L. Mark Pilant, 28-Apr-1983 9:14  
Set the correct default for the /MODE qualifier
- V03-005 KFH0002 Ken Henderson 26 Apr 1983  
Add /SCRIPT keywords to EDIT/FDL:  
add\_key, delete\_key, redesign => touchup
- V03-004 KFH0001 Ken Henderson 14 Apr 1983  
Add qualifiers to EDIT/FDL:  
/DISPLAY/EMPHASIS/GRANULARITY  
/RESPONSES/INTERACTIVE/CREATE  
/NUMBER\_KEYS
- V03-003 PCA1008 Paul C. Anagnostopoulos 25-Feb-1983  
Replace the ZZZZ qualifiers with something more reasonable,  
since the new CDU requires unique names.
- V03-002 PCA1008 Paul C. Anagnostopoulos 11 Feb 1983  
Add a comment about the equivalent CLD for MCR.
- V03-001 LMP0072 L. Mark Pilant, 19-Jan-1983 22:10  
Incorporate the ACL editor into the build. It is invoked  
with the EDIT/ACL DCL command.

! Don't forget the EDT.CLD file. It contains an equivalent set of  
! definitions for MCR which must also be enhanced, but only for EDT.

define type keep\_file  
keyword recovery  
keyword journal  
define type mode\_types

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57      keyword prompt          default,negatable
58
59  define type acl_objects
60      keyword file
61      keyword device
62      keyword queue
63      keyword event_cluster
64      keyword logical_name_table
65      keyword process
66      keyword global_section
67
68  define syntax acledit
69      image acledt
70      parameter p1,prompt='Object Name',value(required,type=$infile),label=input
71      qualifier journal,      default,value(type=$infile)
72      qualifier recover,      value(type=$infile)
73      qualifier keep,         value(list,type=keep_file)
74      qualifier mode,         default,value(type=mode_types)
75      qualifier object_type,  value(type=acl_objects)
76
77  define syntax teco_mung
78      parameter p1            !!!, value(type=$rest_of_line)
79
80  define syntax edit_using_teco
81      image teco
82      qualifier command,      default,value(type=$infile)
83      qualifier create,       default
84      qualifier memory,       default
85      qualifier execute,      value(required,type=$infile),syntax=teco_mung
86      parameter p1,           value(type=$infile)
87      qualifier output,       value(required,type=$outfile)
88      qualifier read_only
89
90  define syntax edit_using_dpe
91      image dpe
92      parameter p1,           label=input,prompt='File'
93                               value(required,type=$infile)
94      qualifier command,      default,value(type=$infile)
95      qualifier context,      default,value(type=$infile)
96      qualifier journal,      default,value(type=$infile)
97      qualifier output,       default,value(type=$outfile)
98      qualifier read_only
99      qualifier recover
100
101  define type script_options
102      keyword add_key
103      keyword delete_key
104      keyword indexed
105      keyword optimize
106      keyword relative
107      keyword sequential
108      keyword touchup
109
110  define type prpt_options
111      keyword brief
112      keyword full
```

```
113
114 define type disp_options
115     keyword line
116     keyword fill
117     keyword add
118     keyword init
119     keyword record
120     keyword key
121
122 define type emph_options
123     keyword flatter
124     keyword smaller
125
126 define type gran_options
127     keyword one
128     keyword two
129     keyword three
130     keyword four
131     keyword double
132     keyword 1
133     keyword 2
134     keyword 3
135     keyword 4
136
137 define type resp_options
138     keyword automatic
139     keyword manual
140
141 define syntax edf
142     image edf
143     parameter p1,label=p1,prompt='File',value(required,type=$infile)
144     qualifier output, value(required,type=$outfile)
145     qualifier analysis, value(required,type=$infile)
146     qualifier interactive, default
147     qualifier emphasis, value(required,type=emph_options)
148     qualifier granularity, value(required,type=gran_options)
149     qualifier create
150     qualifier number_keys, value(required)
151     qualifier display, value(required,type=disp_options)
152     qualifier responses, value(required,type=resp_options)
153     qualifier script, value(required,type=script_options)
154     qualifier prompting, value(required,type=prpt_options)
155     disallow (neg interactive) and (create or number_keys or
156             display or responses or script or prompting)
157
158
159
160 !SOS define syntax edit_using_sos
161 !SOS image backtrans
162
163 define type slp_audit_options
164     keyword position, value(type=$number,default=80), default
165     keyword size, value(type=$number,default=8), default
166
167 define syntax edit_using_slp
168     image backtrans
```

```
169     parameter p1,           prompt='file',
170     value(required,type=$infile),label=input
171     qualifier audit_trail,   value(list,type=slp_audit_options)
172     qualifier checksum,     value(type=$number)
173     qualifier listing,      value(type=$outfile)
174     qualifier output,       value(type=$outfile),default
175     qualifier report
176     qualifier truncate,     value(type=$number)
177     qualifier tab
178
179 define syntax sumslp
180     image sumslp
181
182 define verb edit
183     image edt
184     parameter p1,prompt='file',value(required,type=$infile),label=input
185     !SOS qualifier decide
186     !SOS qualifier exact
187     !SOS qualifier expert
188     !SOS qualifier increment, value
189     !SOS qualifier isave,   value
190     !SOS qualifier line
191     !SOS qualifier listing,  value(type=$outfile)
192     !SOS qualifier lower
193     !SOS qualifier output,   value(type=$outfile)
194     !SOS qualifier pline,    value
195     !SOS qualifier read_only
196     !SOS qualifier save,     value
197     !SOS qualifier slp,      syntax=edit_using_slp
198     !SOS qualifier sos,      syntax=edit_using_sos
199     !SOS qualifier start,    value
200     !SOS qualifier step,     value
201     !SOS qualifier header
202     !SOS qualifier sum,      syntax=sumslp
203     !SOS qualifier update,   value(list),placement=local
204     !SOS qualifier edt
205     !SOS qualifier command,  default,value(type=$infile)
206     !SOS qualifier recover
207     !SOS qualifier journal,  default,value(type=$infile)
208     !SOS qualifier $1_filler, label=dmy1
209     !SOS qualifier $2_filler, label=dmy2
210     !SOS qualifier bak,     default
211     !SOS qualifier num,     default
212     !SOS qualifier fdl,     syntax=edf
213     !SOS qualifier create,   default
214     !SOS qualifier acl,     syntax=acledit
215     !SOS qualifier dpe,     syntax=edit_using_dpe
216     !SOS qualifier tecu,    syntax=edit_using_teco
```

\$ SET COMMAND SRCS:ACC.CLD,ANALYZE.CLD,BACKUP.CLD,CHECKSUM.CLD,CONVERT.CLD,COPY.CLD,CREATE.C D,DCLINT.CLD,DELETE.CLD,DIFF.CLD,DIRECT



```
1  : Title encrypt.cld Command Definition for ENCRYPT/DECRYPT
2  : version 'V04-000'
3  :
4  :
5  : Modified by:
6  :
7  :     V01-002 MSH0073      Michael S. Harvey      15-Aug-1984
8  :           Add support for /JOB qualifier.
9  :
10 :     V01-001 JEP0004      J. Eric Pollack      12-Aug-1983
11 :           Revise syntax. Remove /supermode...
12 :
13 :
14 :
15 :
16 : Command definition for the VAX/VMS ENCRYPTION Facility
17 :
18 :
19 :
20 : define the type for the /ALGORITHM= list
21 :
22 : DEFINE TYPE algorithm_option
23 :     KEYWORD DES,
24 :     KEYWORD DES ECB,
25 :     KEYWORD DES CBC, default
26 :     KEYWORD DES CFB,
27 :     KEYWORD DES DAC,
28 :     KEYWORD RSA,
29 :     KEYWORD ALC,
30 :     KEYWORD VPA,
31 :     KEYWORD NUL
32 :
33 : Define the syntax of the facility command to define encryption keys
34 :
35 : define syntax create_encrypt_key
36 :     qualifier CREATE_KEY, default
37 :     parameter p1, prompt='Key Name', value(required, type=$inlog)
38 :     parameter p2, prompt='Key Value', value(required, type=$outlog)
39 :     qualifier compress
40 :     qualifier group
41 :     qualifier hexadecimal, negatable, value(default=NOHEXADECIMAL)
42 : !3   qualifier hexadecimal, value(default=NOHEXADECIMAL)
43 :     qualifier log
44 :     qualifier parity
45 :     qualifier process, default
46 :     qualifier system
47 :     qualifier job
48 :     disallow any2(system, group, process, job)
49 :     disallow hexadecimal and compress
50 :     disallow hexadecimal and parity
51 :
52 : Define the syntax of the facility command to delete encryption keys
53 :
54 : define syntax eliminate_encrypt_key
55 :     qualifier REMOVE_KEY, default
56 : !3   qualifier CREATE_KEY, negatable, value(default='NOCREATE_KEY')
```

```
57     qualifier CREATE_KEY,value(default='NOCREATE_KEY')
58     parameter p1,prompt='Key Name',value(required,type=$inlog)
59     qualifier system
60     qualifier group
61     qualifier job
62     qualifier process,default
63     qualifier log
64     disallow any2(system,group,process,job)
65     !
66     ! Define the syntax of the facility command to test the encryption interfaces
67     !
68     DEFINE SYNTAX syntax_test
69     QUALIFIER TEST_FACILITY,default
70     !3     qualifier CREATE_KEY,negatable,value(default='NOCREATE_KEY')
71     !3     qualifier REMOVE_KEY,negatable,value(default='NOREMOVE_KEY')
72     qualifier CREATE_KEY,value(default='NOCREATE_KEY')
73     qualifier REMOVE_KEY,value(default='NOREMOVE_KEY')
74     QUALIFIER algorithm,VALUE(LIST,
75     TYPE=algorithm_option)
76     QUALIFIER input, DEFAULT, VALUE(DEFAULT='SYSS$INPUT',TYPE=$INFILE)
77     QUALIFIER log
78     QUALIFIER output, DEFAULT, VALUE(DEFAULT='SYSS$OUTPUT',TYPE=$OUTFILE)
79     QUALIFIER select, VALUE(LIST,DEFAULT='QUICK')
80     NOPARAMETERS
81     !
82     ! Define the root commands
83     !
84     DEFINE VERB ENCRYPT
85     IMAGE encryptfac
86     QUALIFIER CREATE_KEY,SYNTAX = create_encrypt_key
87     QUALIFIER REMOVE_KEY,SYNTAX = eliminate_encrypt_key
88     QUALIFIER TEST_FACILITY,SYNTAX = syntax_test
89     QUALIFIER log
90     PARAMETER P1,
91     LABEL=INPUT,
92     PROMPT='Input File(s)',
93     VALUE(REQUIRED,LIST)
94     PARAMETER P2,
95     LABEL=KEY,
96     PROMPT='Key Name',
97     VALUE(REQUIRED,TYPE=$INLOG)
98     QUALIFIER algorithm,
99     VALUE(LIST,TYPE=algorithm_option)
100    QUALIFIER delete
101    QUALIFIER erase
102    QUALIFIER output,
103    DEFAULT,
104    VALUE(TYPE=$OUTFILE)
105    QUALIFIER statistics
106    qualifier confirm
107    qualifier exclude,value(list)
108    qualifier before,value(default=today)
109    qualifier since,value(default=today)
110    qualifier by_owner,value(type=$uic)
111
112    DEFINE VERB DECRYPT
```

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14-JAN-1985 10:57  
14-JAN-1985 10:55

VAX/VMS Command Definition Utility (V4-001) Page 3  
\_S255\$DUA18:[CLD.BUGSRC]ENCRYPT.CLD;1 (1)

```
113 IMAGE encryptfac
114 PARAMETER P1,
115     LABEL=INPUT,
116     PROMPT="Input File(s)",
117     VALUE(REQUIRED,LIST)
118 PARAMETER P2,
119     LABEL=KEY,
120     PROMPT="Key Name",
121     VALUE(REQUIRED,TYPE=$INLOG)
122 QUALIFIER algorithm,
123     VALUE(LIST,TYPE=algorithm_option)
124 QUALIFIER delete
125 QUALIFIER erase
126 QUALIFIER log
127 QUALIFIER output,
128     DEFAULT,
129     VALUE(TYPE=$OUTFILE)
130 QUALIFIER statistics
131 qualifier confirm
132 qualifier exclude,value(list)
133 qualifier before,value(default=today)
134 qualifier since,value(default=today)
135 qualifier by_owner,value(type=$uic)
```

\$ SET COMMAND SRC\$=ACC.CLD,ANALYZE.CLD,BACKUP.CLD,CHECKSUM.CLD,CONVERT.CLD,COPY.CLD,CREATE.CLD,DCLINT.CLD,DELETE.CLD,DIFF.CLD,DIRECT

\$ S

1 MODULE exchange

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4 Version: 'V04-000'

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28  
29  
30 DEFINE VERB exchange  
31 IMAGE exchange  
32  
33 PARAMETER P1, LABEL=command, VALUE(TYPE=\$REST\_OF\_LINE)  
34  
35 QUALIFIER cache  
36 QUALIFIER message DEFAULT  
37

\$ SET COMMAND SRC\$:ACC.CLD,ANALYZE.CLD,BACKUP.CLD,CHECKSUM.CLD,CONVERT.CLD,COPY.CLD,CREATE.CLD,DCLINT.CLD,DELETE.CLD,DIFF.CLD,DIRECT

14-JAN-1985 10:57  
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Version: 'V04-000'

V03-002 MCN0173 Maria del C. Nasr 25-Jun-1984  
Make /OUTPUT qualifier default to SYSS\$OUTPUT

V03-001 PCG0001 Peter George 11-Apr-1984  
Add DISALLOW statements.

DEFINE TYPE scope\_keywords  
KEYWORD ALL,default  
KEYWORD NONE  
KEYWORD PROCESS  
KEYWORD GROUP  
KEYWORD SYSTEM

DEFINE VERB HELP  
IMAGE VMSHELP  
PARAMETER P1,label=keywords,  
value(type=\$rest\_of\_line)  
QUALIFIER PROMPT,default  
QUALIFIER PAGE,default  
QUALIFIER INSTRUCTIONS,default  
QUALIFIER OUTPUT,default  
value(type=\$file,default='SYSS\$OUTPUT')  
QUALIFIER LIBRARY,default  
value(type=\$infile,default='HELPLIB')  
QUALIFIER LIBLIST,default  
QUALIFIER USERLIBRARY,default,negatable,  
value(type=scope\_keywords,list)  
DISALLOW (ALL and NONE)  
DISALLOW (ALL or NONE) and (PROCESS or GROUP or SYSTEM)

\$ SET COMMAND SRC\$ : ACC.CLD,ANALYZE.CLD,BACKUP.CLD,CHECKSUM.CLD,CONVERT.CLD,COPY.CLD,CREATE.CLD,DCLINT.CLD,DELETE.CLD,DIFF.CLD,DIRECT

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Version: 'V04-000'

- V03-016 JAK0227 J A Krycka 17-Aug-1984  
Disallow certain printer queue specific qualifiers to be used  
with /BATCH and /GENERIC.
- V03-015 JAK0226 J A Krycka 16-Aug-1984  
Omit "list" as an attribute for the /OWNER\_UIC qualifier.
- V03-014 JAK0220 J A Krycka 12-Jul-1984  
Add [NO]FEED option to the /DEFAULT qualifier.
- V03-013 MCN0174 Maria del C. Nasr 09-Jul-1984  
Make qualifiers negatable to follow the standard rule.
- V03-012 PCG0001 Peter George 20-Feb-1984  
Modify behavior of INIT/QUEUE/BLOCK.
- V03-011 MCN0144 Maria del C. Nasr 19-Jan-1984  
Fix image name for INITIALIZE.
- V03-010 MCN0140 Maria del C. Nasr 23-Nov-1983  
Change to new CLI interface for INIT image.
- V03-009 MLJ0009 Martin L. Jack 29-Jul-1983  
Add /LIBRARY and /SCHEDULE.
- V03-008 MAJ0002 Melanie Johnson 22-Jun-1983  
Put mcignore flag on the init/queue qualifiers.
- V03-007 MLJ0007 Martin L. Jack 27-May-1983  
Changes for new QUEMAN image.
- V03-006 MLJ0006 Martin L. Jack 27-Apr-1983  
Changes for new QUEMAN image.
- V03-005 STJ3087 Steven Jeffreys 24-Apr-1983  
Added /[NO]ERASE and /[NO]HIGHWATER.
- V03-004 MMD0076 Meg Dumont 08-Apr-1983  
Added support for new qualifiers on /LABEL and /OVERRIDE and  
added the /INTERCHANGE qualifier
- V03-003 MLJ0002 Martin L. Jack 03-Jan-1982  
Changes for new QUEMAN image.
- V03-001 MAJ0001 Melanie Johnson 07-Oct-1982  
Put mcignore flag into cliflags construct.

```
define type print_bft
keyword all,default
keyword one

define type defaults
keyword burst,negatable,value(type=print_bft)
```

```
57     keyword feed,negatable
58     keyword flag,negatable,value(type=print_bft)
59     keyword trailer,negatable,value(type=print_bft)
60
61 define type retain
62     keyword all,default
63     keyword error
64
65 define type schedule
66     keyword size,negatable
67
68 define type separate
69     keyword burst,negatable
70     keyword flag,negatable
71     keyword reset,negatable,value(required,list)
72     keyword trailer,negatable
73
74 define type protection
75     keyword system,value
76     keyword group,value
77     keyword owner,value
78     keyword world,value
79
80 define type init_overrides
81     keyword expiration
82     keyword accessibility
83     keyword owner_identifier
84
85 define type datacheck_options
86     keyword read
87     keyword write
88
89 define type index_position
90     keyword beginning
91     keyword middle
92     keyword end
93     keyword block,value(required)
94
95 define type ansi
96     keyword volume_accessibility,value(required)
97     keyword owner_identifier,value(required,type=$infile)
98
99 define syntax init_queue
100     image queman
101     parameter p1,prompt='Queue',value(required)
102
103 define verb initialize
104     image init
105     parameter p1,prompt='Device',value(required,type=$device),label=device
106     parameter p2,prompt='Label',value(required),label=volume
107     qualifier accessed, value(required,type=$number)
108     qualifier badblocks, value(required,list)
109     qualifier base_priority,value(required),cliflags(mcrignore),syntax=init_queue
110     qualifier batch, cliflags(mcrignore),syntax=init_queue
111     qualifier block_limit, value(list),cliflags(mcrignore),syntax=init_queue
112     qualifier characteristics,cliflags(mcrignore),syntax=init_queue,value(required,list)
```

```
113 qualifier cluster_size, value(required,type=$number)
114 qualifier cpudefault, value(required),cliflags(mcrignore),syntax=init_queue
115 qualifier cpumaximum, value(required),cliflags(mcrignore),syntax=init_queue
116 qualifier data_check, value(list,type=datacheck_options)
117 qualifier default, value(required,list,type=defaults),cliflags(mcrignore),syntax=init_queue
118 qualifier density, value(required)
119 qualifier directories, value(required,type=$number)
120 qualifier disable_swapping,cliflags(mcrignore),syntax=init_queue
121 qualifier enable_generic,cliflags(mcrignore),syntax=init_queue
122 qualifier erase
123 qualifier extension, value(required,type=$number)
124 qualifier file_protection,value(required,list,type=protection)
125 qualifier form, value(required),cliflags(mcrignore),syntax=init_queue
126 qualifier generic, value(list),cliflags(mcrignore),syntax=init_queue
127 qualifier group
128 qualifier headers, value(required,type=$number)
129 qualifier highwater, default
130 qualifier index, value(required,type=index_position)
131 qualifier interchange
132 qualifier job_limit, value(required),cliflags(mcrignore),syntax=init_queue
133 qualifier label, value(required,list,type=ansi)
134 qualifier library, value(required),cliflags(mcrignore),syntax=init_queue
135 qualifier maximum_files,value(required,type=$number)
136 qualifier on, value(type=$infile,required),cliflags(mcrignore),syntax=init_queue
137 qualifier override, value(required,list,type=init_overrides)
138 qualifier owner_uic, value(required,type=$uic)
139 qualifier processor, value(required),cliflags(mcrignore),syntax=init_queue
140 qualifier protection, value(required,list,type=protection)
141 qualifier queue, cliflags(mcrignore),syntax=init_queue
142 qualifier retain, value(type=retain),cliflags(mcrignore),syntax=init_queue
143 qualifier schedule, value(required,list,type=schedule),cliflags(mcrignore),syntax=init_queue
144 qualifier separate, value(required,list,type=separate),cliflags(mcrignore),syntax=init_queue
145 qualifier share, default
146 qualifier start, cliflags(mcrignore),syntax=init_queue
147 qualifier structure, value(required,type=$number)
148 qualifier system
149 qualifier terminal, cliflags(mcrignore),syntax=init_queue
150 qualifier user_name, value(required)
151 qualifier verified, default
152 qualifier windows, value(required,type=$number)
153 qualifier wsdefault, value(required),cliflags(mcrignore),syntax=init_queue
154 qualifier wsextent, value(required),cliflags(mcrignore),syntax=init_queue
155 qualifier wsquota, value(required),cliflags(mcrignore),syntax=init_queue
156 disallow group and system
157 disallow default and (batch or generic)
158 disallow separate and (batch or generic)
159 disallow form and (batch or generic)
```

\$ SET COMMAND SRCS:ACC.CLD,ANALYZE.CLD,BACKUP.CLD,CHECKSUM.CLD,CONVERT.CLD,COPY.CLD,CREATE.CLD,DCLINT.CLD,DELETE.CLD,DIFF.CLD,DIRECT



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Version: 'V04-000'

V03-008 GJA0092 Greg Awdziewicz 25-Jul-1984  
- Reverse the nonnegatable mistake. Only qualifiers  
which require values should be nonnegatable.

V03-007 MCN0143 Maria del C. Nasr 29-Jun-1984  
Make nonnegatable, qualifiers that should be so. Add  
the /DATA qualifier with keywords EXPAND and COMPRESS  
to do the data reduction work. Eliminate REDUCE  
option from /COMPRESS.

V03-006 JWT0124 Jim Teague 16-Jun-1983  
/EXTRACT requires a value; /ONLY doesn't necessarily  
need /LIST.

V03-005 JWT0120 Jim Teague 18-May-1983  
Remove some disallow clauses.

V03-004 JWT0103 Jim Teague 06-Apr-1983  
Mutual exclusion final touches to new cli interface.  
Remove prefixes and outputs; squeeze becomes default  
as stated by documentation.

V03-003 PCA1008 Paul C. Anagnostopoulos 10 Feb 1983  
Merge the outputs list for DCL and MCR, because the CDU no  
longer supports different lists.

V03-002 JWT0060 Jim Teague 20-Oct-1982  
Need to rearrange the new reduce keyword.

V03-001 JWT0056 Jim Teague 19-Oct-1982  
Add REDUCE keyword to /COMPRESS qualifier.

define syntax library\_only  
parameter p1,prompt='Library',value(required,type=\$infile)

define syntax optional\_files  
parameter p1,prompt='Library',value(required,type=\$infile)  
parameter p2,prompt='File',value(list,impcat,type=\$infile)

define syntax library\_using\_lbr  
image backtrans

define type create\_options  
keyword blocks, value(required)  
keyword globals, value(required)  
keyword modules, value(required)  
keyword keysize, value(required)  
keyword history, value(required)  
keyword version, value(required)

define type compress\_options

```
57 keyword blocks, value(required)
58 keyword globals, value(required)
59 keyword modules, value(required)
60 keyword keysize, value(required)
61 keyword history, value(required)
62 keyword version, value(required)
63 keyword keep
64
65 define type cross_options
66 keyword all
67 keyword module
68 keyword none
69 keyword symbol
70 keyword value
71
72 define type data_options
73 keyword reduce
74 keyword expand
75
76 define verb library
77 image librarian
78 parameter p1,prompt='Library',value(required,type=$infile)
79 parameter p2,prompt='File',value(required,list,impcat,type=$infile)
80 qualifier compress, value(list,type=compress_options),
81 syntax=library_only
82 qualifier create, value(list,type=create_options),
83 syntax=optional_files
84 qualifier data, value(required,type=data_options),
85 syntax=library_only,nonnegatable
86 qualifier delete, value(required,list),
87 syntax=optional_files,nonnegatable
88 qualifier extract, value(required,list),
89 syntax=library_only,nonnegatable
90 qualifier insert
91 qualifier list, value(type=$outfile),
92 syntax=optional_files
93 qualifier remove, value(required,list),
94 syntax=optional_files,nonnegatable
95
96 qualifier replace
97 qualifier macro
98 qualifier object
99 qualifier output, value(type=$outfile),default
100 qualifier full
101 qualifier globals, default
102 qualifier rx11, syntax=library_using_lbr
103 qualifier selective_search
104 qualifier squeeze, default
105 qualifier log
106 qualifier width, value(required),nonnegatable
107 qualifier cross_reference,value(list,type=cross_options),
108 syntax=library_only
109 qualifier only, value(required,list)
110 qualifier help
111 qualifier text
112 qualifier modules, value(required,list),placement=local
```

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14-JAN-1985 10:57  
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VAX/VMS Command Definition Utility (V4-001)  
\_S255SDUA18:[CLD.BUGSRC]LIBRARIAN.CLD,1 (1)

Page 3

```
113 qualifier share
114 qualifier history
115 qualifier before, value(default=today, type=$datetime)
116 qualifier since, value(default=today, type=$datetime)
117 disallow ( extract and ( compress or create or delete or insert or
118 list or remove or replace or names or
119 full or globals or selective_search or
120 squeeze or cross_reference or width ) )
121 disallow ( compress and create )
122 disallow ( cross_reference and ( list or macro or help or text or
123 before or since or history ) )
124 disallow ( any2 ( help , share , text , macro , object ) )
125 disallow ( ( full or names or history or before or since )
126 and not list )
127 disallow ( ( remove or names or globals ) and
128 ( text or help or macro ) )
129
```

\$ SET COMMAND SRCS:ACC.CLD,ANALYZE.CLD,BACKUP.CLD,CHECKSUM.CLD,CONVERT.CLD,COPY.CLD,CREATE.CLD,DCLINT.CLD,DELETE.CLD,DIFF.CLD,DIRECT

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Version: 'V04-000'  
V03-004 ADE0001 Alan D. Eldridge 12-Apr-1984  
Make /MAP, /EXE, and /SYM positional  
V03-003 JWT0114 Jim Teague 27-Apr-1983  
Remove prefixes and outputs; map is un-defaulted.  
V03-002 JWT0099 Jim Teague 06-Apr-1983  
Do mutual exclusion stuff to go along with  
new interface in Linker.  
V03-001 PCA1008 Paul C. Anagnostopoulos 10 Feb 1983  
Merge the outputs list for DCL and MCR, as the CDU no  
longer supports separate lists.

```
define syntax link_using_tkb
image backtrans

define verb link
image link
parameter p1,prompt='File',value(required,list,impcat,type=$infile)
qualifier brief
qualifier cross_reference
qualifier debug, value(type=$infile)
qualifier executable, value(type=$outfile),placement=positional,default
qualifier include, value(required,list),placement=local
qualifier library, placement=local
qualifier shareable, value(type=$outfile)
qualifier contiguous
qualifier map, value(type=$outfile),placement=positional,batch
qualifier options, placement=local
qualifier selective_search,placement=local
qualifier symbol_table, value(type=$outfile),placement=positional
qualifier syslib, default
qualifier system, value
qualifier supress, default,value(default='SYSLIB,DEBUG,WEAK') ! && whats this?
qualifier rsx11, syntax=link_using_tkb
qualifier full
qualifier concatenated, placement=local,syntax=link_using_tkb
qualifier default_library,value(required,type=$infile),
syntax=link_using_tkb
qualifier exit, value(default=1),syntax=link_using_tkb
qualifier header
qualifier overlay_description,syntax=link_using_tkb
qualifier position_independent,syntax=link_using_tkb
qualifier sequential, syntax=link_using_tkb
qualifier trace, default
qualifier tkb_options, value(type=$infile),syntax=link_using_tkb
qualifier post_mortem, syntax=link_using_tkb
qualifier sysshr, default
qualifier userlibrary, default,value(list)
qualifier p0image
qualifier protect
disallow ( ( full or brief or cross_reference ) and not map )
```

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VAX VMS Command Definition Utility (V4-001) Page 2  
\_S25 \$DUA18:[CLD.BUGSRC]LINK.CLD;1 (1)

57 disallow ( any2 ( system , debug , shareable ) )  
58 disallow ( protect and system )  
59 disallow ( p0image and ( shareable or system ) )  
60 disallow ( header and shareable )  
61 disallow ( brief and ( cross\_reference or full ) )

\$ SET COMMAND SRCS:ACC.CLD,ANALYZE.CLD,BACKUP.CLD,CHECKSUM.CLD,CONVERT.CLD,COPY.CLD,CREATE.CLD,DCLINT.CLD,DELETE.CLD,DIFF.CLD,DIRECT

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Version: 'V04-000'

- V03-010 RRB0022 Rowland R. Bradley 21-Jun-1984  
Remove nonnegatable from /DISABLE, /ENABLE, /UPDATE  
and /LIBRARY.
- V03-009 PCG0001 Peter George 13-Mar-1984  
Remove last vestiges of old command interface.  
Remove DEFAULT clause from /SHOW qualifier.
- V03-008 RRB0015 Rowland R. Bradley 24-Feb-1984  
Remove default settings for /DISABLE and /ENABLE since  
these override any switches set by the user w/ .ENABLE  
or .DISABLE. Defaults must be set in MACRO.EXE.
- V03-007 RRB0014 Rowland R. Bradley 23-Feb-1984  
Remove disallow of /LIB and /UPDATE. This must be  
handled by the program since context(position) is  
important.
- V03-006 RRB0010 Rowland R. Bradley 25-Jan-1984  
Set correct defaults for /DISABLE, /ENABLE, /SHOW, /LIST,  
and /CROSS\_REFERENCE. Inserted "nonnegatable" where apropos.
- V03-005 MTR0003 Mike Rhodes 7-Apr-1983  
Correct the default keyword specification for /DEBUG.
- V03-004 MTR0002 Mike Rhodes 28-Mar-1983  
Modify the OBJECT and LISTING qualifiers to make them positional
- V03-003 MTR0001 Mike Rhodes 24-Mar-1983  
Modify the NOSHOW qualifier to accept a list of show keywords.  
(This is done because negated qualifiers can't have keywords.)
- V03-002 PCA1008 Paul C. Anagnostopoulos 10 Feb 1983  
Merge the outputs list for DCL and MCR, as the new CDU does not  
support separate lists.
- V03-001 MTR0001 Mike Rhodes 9-Feb-1983  
Add 'label' field to parameter specification.

define type enable\_options

- keyword ama
- keyword dhg
- keyword fpt
- keyword gbl
- keyword lsb
- keyword tbk
- keyword absolute
- keyword debug
- keyword truncation
- keyword global
- keyword suppression
- keyword traceback

```
57 define type show_options
58     keyword cnd,default
59     keyword mc,default
60     keyword md,default
61     keyword me
62     keyword meb
63     keyword conditionals
64     keyword calls
65     keyword definitions
66     keyword expansions
67     keyword binary
68
69 define type crf_options
70     keyword all
71     keyword directives
72     keyword macros,default
73     keyword opcodes
74     keyword registers
75     keyword symbols,default
76
77 define type debug_options
78     keyword all,default
79     keyword none
80     keyword symbols
81     keyword traceback
82
83 define syntax macro_using_mac
84     image backtrans
85
86 define verb macro
87     image macro32
88     parameter p1,label=file,
89     prompt='File',value(required,list,type=$infile)
90     qualifier disable,    value(required,list,
91     type=enable_options)
92     qualifier enable,    value(required,list,
93     type=enable_options)
94     qualifier library,   placement=local
95     qualifier listing,   placement=positional,
96     value(type=$outfile),batch
97     qualifier object,    placement=positional,
98     value(type=$outfile),default
99     qualifier show,      value(list,type=show_options)
100    qualifier rx1f,      syntax=macro_using_mac
101    qualifier noshw,     value(list,type=show_options)
102    qualifier cross_reference,
103    value(list,type=crf_options)
104    qualifier update,    value(list),placement=local
105    qualifier debug,     value(list,type=debug_options)
```

\$ SET COMMAND SRCS:ACC.CLD,ANALYZE.CLD,BACKUP.CLD,CHECKSUM.CLD,CONVERT.CLD,COPY.CLD,CREATE.CLD,DCLINT.CLD,DELETE.CLD,DIFF.CLD,DIRECT

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VAX/VMS Command Definition Utility (V4-001) Page 1  
\_S255\$DUA18:[CLD.BUGSRC]MAIL.CLD;1 (1)

```
1  |
2  | : Version: 'V04-000'
3  | :
4  |
5  | define type reply_types
6  |     keyword extract
7  |
8  | define type edit_types
9  |     keyword send
10 |     keyword reply,value(type=reply_types)
11 |     keyword forward
12 |
13 | define syntax decmail
14 |     image decmail
15 |
16 | define verb mail
17 |     image mail
18 |     parameter p1,prompt='File',value(type=$infile),label=file
19 |     parameter p2,prompt='To',value(list,impcat),label=tolist
20 |     qualifier subject, value(required)
21 |     qualifier decmail, syntax=decmail
22 |     qualifier edit,value(list,type=edit_types)
23 |     qualifier protocol value(required)
24 |     qualifier self
```

\$ SET COMMAND SRCS:ACC.CLD,ANALYZE.CLD,BACKUP.CLD,CHECKSUM.CLD,CONVERT.CLD,COPY.CLD,CREATE.CLD,DCLINT.CLD,DELETE.CLD,DIFF.CLD,DIRECT



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MESSAGE.CLD -- Command Language Definition file for the MESSAGE compiler.

Version: 'V04-000'

V03-002 GJA0061 Greg Awdziewicz 9-Jan-1984  
- Remove the pseudo qualifier /noObject now that the negatable operator is allowed in the Disallow clause.

V03-001 GJA0054 Greg Awdziewicz 1-Dec-1983  
- Make changes for the new CLI interface and fix the behavior to be consistent with the Command Language User's Guide rules and to enforce the restrictions on mutually exclusive qualifiers.  
- Change qualifiers /Listing & /File to /List & /File name to agree with documentation and to be consistent with other compilers.

Define	Verb	Message
Image	Parameter	Message P1 ! The only parameter is the Prompt='File' ! source file of messages.
Qualifier		Value (required, list, type=\$FILE) FILE_NAME ! An object file of previously compiled messages.
Qualifier		Value (required, type=\$FILE) LIST
		Batch ! Defaulted for batch only.
		Placement=positional Value (type=\$FILE)
Qualifier		MDL ! (for DEC internal use -- not documented)
		Placement=positional Value (type=\$FILE)
Qualifier		SDL ! (for DEC internal use -- not documented)
		Placement=positional Value (type=\$FILE)
Qualifier		OBJECT Default
		Placement=positional Value (type=\$FILE)
Qualifier		SYMBOLS Default
Qualifier		TEXT Default
Disallow		File name and Text
Disallow		Neg Object and (File_name or Symbols or Text)

\$ SET COMMAND SRCS:ACC.CLD,ANALYZE.CLD,BACKUP.CLD,CHECKSUM.CLD,CONVERT.CLD,COPY.CLD,CREATE.CLD,DCLINT.CLD,DELETE.CLD,DIFF.CLD,DIRECT

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Version: 'V04-000'

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MODIFIED BY:

V03-004	PRS1011	Paul R. Senn	29-Feb-1984	14:00
	add /FLUSH_INTERVAL qualifier			
V03-003	TLC1052	Thomas L. Cafarella	17-Feb-1984	11:00
	Add /BY_NODE qualifier and change /INPUT to accept a list (in support of multi-file summary capability).			
V03-002	TLC1042	Thomas L. Cafarella	19-Jun-1983	15:00
	Add /ITEM qualifier for homogeneous classes.			
V03-001	TLC1028	Thomas L. Cafarella	14-Apr-1983	16:00
	Modify for interactive user interface.			

define verb MONITOR  
image MONITOR  
parameter P1, label=CLASS\_NAME,  
value (list)  
qualifier BEGINNING, nonnegatable,  
value  
qualifier ENDING, nonnegatable,  
value  
qualifier INTERVAL, nonnegatable,  
value  
qualifier FLUSH\_INTERVAL, nonnegatable,

J 11  
14-JAN-1985 10:57  
14-JAN-1985 10:55

57			value
58	qualifier	VIEWING_TIME,	nonnegatable,
59			value
60	qualifier	INPUT,	value (list)
61	qualifier	DISPLAY,	value, default
62	qualifier	RECORD,	value
63	qualifier	SUMMARY,	value
64	qualifier	COMMENT,	value
65	qualifier	BY_NODE	
66			
67	qualifier	ALL,	nonnegatable, placement=local
68	qualifier	CURRENT,	nonnegatable, placement=local
69	qualifier	AVERAGE,	nonnegatable, placement=local
70	qualifier	MINIMUM,	nonnegatable, placement=local
71	qualifier	MAXIMUM,	nonnegatable, placement=local
72			
73	qualifier	TOPCPU,	nonnegatable, placement=local
74	qualifier	TOPDIO,	nonnegatable, placement=local
75	qualifier	TOPBIO,	nonnegatable, placement=local
76	qualifier	TOPFAULT,	nonnegatable, placement=local
77			
78	qualifier	CPU,	placement=local
79			
80	qualifier	PERCENT,	placement=local
81			
82	qualifier	ITEM,	nonnegatable, placement=local
83			value (list)

\$ SET COMMAND SRC\$:ACC.CLD,ANALYZE.CLD,BACKUP.CLD,CHECKSUM.CLD,CONVERT.CLD,COPY.CLD,CREATE.CLD,DCLINT.CLD,DELETE.CLD,DIFF.CLD,DIRECT

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Version: 'V04-000'

V03-007 DAS0002      David Solomon      09-Jul-1984
      Add /[NO]REBUILD.

V03-006 HH0028      Hai Huang      27-Jun-1984
      Make appropriate qualifiers negatable.

V03-005 HH0004      Hai Huang      09-Mar-1984
      Add /CLUSTER qualifier.

V03-004 WMC0001      Wayne Carloza      16-Jan-1984
      Remove all journaling keywords.

V03-003 DAS0001      David Solomon      29-Nov-1983
      Add RECORD_SIZE keyword for /JOURNAL qualifier.

V03-002 MCN0138      Maria del C. Nasr      12-Jul-1983
      Make changes for new CLI interface. Take out prefix
      clause, which is no longer needed. Add disallow clauses
      for qualifiers that cannot go together.

V03-001 MMD0056      Meg Dumont      28-Mar-1983
      Changed /OVERRIDE to inc OWNER_IDENTIFIER, added /AUTO and /INIT
```

```
define type cache_options
  keyword extent,      value(required,type=$number),negatable
  keyword file_id,    value(required,type=$number),negatable
  keyword limit,      value(required,type=$number)
  keyword quota,      value(required,type=$number),negatable
  keyword writethrough

define type datacheck_options
  keyword read
  keyword write

define type initialize_options
  keyword all
  keyword continuation

! **JNL** define type journal_options
! **JNL** keyword newfile
! **JNL** keyword size,      value(required,type=$number)
! **JNL** keyword extension, value(required,type=$number)
! **JNL** keyword quota,     value(required,type=$number)
! **JNL** keyword RECORD_SIZE, value(required,type=$number)

define type mount_overrides
  keyword accessibility
  keyword expiration
  keyword identification, syntax=mount_wo_label
  keyword setid
  keyword lock
  keyword owner_identifier
```

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58 define type protection
59     keyword system,value
60     keyword group,value
61     keyword owner,value
62     keyword world,value
63
64 define syntax mount_wo_label
65     parameter p1,prompt='Device',value(required,list,type=$device),label=devices
66     parameter p2,prompt='Label',value(list),label=volumes
67     parameter p3,prompt='Log name',value(type=$outlog),label=lognames
68     disallow (<mount>foreign or <mount>nolabel) and (<mount>accessed or
69                                     <mount>automatic or
70                                     <mount>bind or
71                                     <mount>cache or
72                                     <mount>extension or
73                                     <mount>hdr3 or
74                                     <mount>initialize or
75                                     <mount>label or
76                                     <mount>processor or
77                                     <mount>quota or
78                                     <mount>rebuild or
79                                     <mount>windows)
80     disallow (<mount>group or <mount>system) and <mount>share
81     disallow <mount>system and <mount>group
82
83 define verb mount
84     image vmount
85     parameter p1,prompt='Device',value(required,list,type=$device),label=devices
86     parameter p2,prompt='Label',value(required,list),label=volumes
87     parameter p3,prompt='Log name',value(type=$outlog),label=lognames
88     qualifier accessed,      value(required,type=$number)
89     qualifier assist        default
90     qualifier automatic     default
91     qualifier bind,         value(required)
92     qualifier blocksize,    value(required,type=$number)
93     qualifier cache,        value(required,list,type=cache_options)
94     qualifier cluster
95     qualifier comment,      value(required)
96     qualifier data_check,   value(list,type=datacheck_options)
97     qualifier density,      value(required,type=$number)
98     qualifier extension,    value(required,type=$number)
99     qualifier foreign,      syntax=mount_wo_label,nonnegatable
100    qualifier group
101    qualifier hdr3,         default
102    qualifier initialize    value(required,type=initialize_options)
103    **JNL**    qualifier journal    value(list,type=journal_options)
104
105    Due to some constraints in DC_ and CLI parsing, the NOLABEL qualifier must
106    be defined explicitly in this CLD, and cannot be specified as the negation
107    of LABEL. In that way we can use a different syntax for each one, and
108    also take advantage of the disallow clause.
109
110    qualifier label,        default,nonnegatable
111    qualifier nolabel,     nonnegatable,syntax=mount_wo_label
112    qualifier message      default
```

```
113   qualifier mount_verification    default
114   qualifier override,            value(required,list,type=mount_overrides)
115   qualifier owner_uic,           value(required,type=$uic)
116   qualifier processor,           value(required)
117   qualifier protection,          value(required,list,type=protection)
118   qualifier quota,               default
119   qualifier rebuild,             default
120   qualifier recordsize,          value(required,type=$number)
121   qualifier share
122   qualifier system
123   qualifier unload                default
124   qualifier windows,             value(required,type=$number)
125   qualifier write,              default
126   disallow (group or system) and share
127   disallow label and nlabel
128   disallow system and group
```

```
130 :
131 : The following qualifiers have been commented out, since they were never
132 : implemented. They are not being coded with the new CLI interface, but
133 : are included here for historical purposes.
```

```
134 :
135 :   qualifier drive,              value(required),
136 :   placement=positional
137 :   qualifier ebcdic,             value(required,list)
138 :   qualifier interchange
139 :   qualifier user,              value(required,type=$uic)
140 :   qualifier visual,            value(required)
```

\$ SET COMMAND SRCS:ACC.CLD,ANALYZE.CLD,BACKUP.CLD,CHECKSUM.CLD,CONVERT.CLD,COPY.CLD,CREATE.CLD,DCLINT.CLD,DELETE.CLD,DIFF.CLD,DIRECT

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VAX/VMS Command Definition Utility (V4-001)  
\_S255\$DUA18:[CLD.BUGSRC]PATCH.CLD;1 (1)

Page 1

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Version: 'V04-000'  
V03-004 MCN0180 Maria del C. Nasr 11-Jul-1984  
Make qualifiers negatable.  
V03-003 PCG0001 Peter George 13-Mar-1984  
Remove OUTPUTS statement.  
V03-002 MTR0025 Mike Rhodes 9-Aug-1983  
Add /ABSOLUTE qualifier, to allow patching non-image  
files (eg. ISAM) at absolute (virtual) addresses.  
V03-001 MTR0001 Mike Rhodes 9-Feb-1983  
Add 'label' field to parameter specification.  
define verb patch  
image patch  
parameter p1,label=file,prompt='File',value(required,type=$infile)  
qualifier absolute  
qualifier command, value(type=$outfile)  
qualifier journal, value(type=$outfile),default  
qualifier new_version, default  
qualifier output, value(type=$outfile),default  
qualifier update, value(required,list)  
qualifier volume, value
```

\$ SET COMMAND SRC\$ : ACC.CLD,ANALYZE.CLD,BACKUP.CLD,CHECKSUM.CLD,CONVERT.CLD,COPY.CLD,CREATE.CLD,DCLINT.CLD,DELETE.CLD,DIFF.CLD,DIRECT

14-JAN-1985 10:57  
14-JAN-1985 10:56

VAX/VMS Command Definition Utility (V4-001) Page 1  
\_S255SDUA18:[CLD.BUGSRC]PHONE.CLD;1 (1)

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1  |
2  | : Version: 'V04-000'
3  | :
4  | :
5  | define verb PHONE
6  |     image phone
7  |     parameter p1,label=token1,prompt="Command Token 1:"
8  |     parameter p2,label=token2,prompt="Command Token 2:"
9  |     parameter p3,label=token3,prompt="Command Token 3:"
10 |     parameter p4,label=token4,prompt="Command Token 4:"
11 |     qualifier SWITCH_HOOK,default,nonnegatable,value(default='%')
12 |     qualifier VIEWPORT_SIZE,default,nonnegatable,value(default='10')
13 |     qualifier SCROLL,default
```

```
$ SET COMMAND SRCS:ACC.CLD,ANALYZE.CLD,BACKUP.CLD,CHECKSUM.CLD,CONVERT.CLD,COPY.CLD,CREATE.CLD,DCLINT.CLD,DELETE.CLD,DIFF.CLD,DIRECT
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VAX/VMS Command Definition Utility (V4-001)  
\_S255\$DUA18:[CLD.BUGSRC]RENAME.CLD;1 (1)

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Version: 'V04-000'

define verb rename  
image rename  
parameter p1,prompt='From',value(required,list,impcat,type=\$infile)  
parameter p2,prompt='To',value(required,type=\$outfile)  
qualifier new\_version, default  
qualifier before, value(default=today,type=\$datetime)  
qualifier since, value(default=today,type=\$datetime)  
qualifier created  
qualifier modified  
qualifier expired  
qualifier backup  
qualifier exclude, value(required,list)  
qualifier by\_owner, value(type=\$uic)  
qualifier confirm  
qualifier log

\$ SET COMMAND SRCS:ACC.CLD,ANALYZE.CLD,BACKUP.CLD,CHECKSUM.CLD,CONVERT.CLD,COPY.CLD,CREATE.CLD,DCLINT.CLD,DELETE.CLD,DIFF.CLD,DIRECT

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Version: 'V04-000'

define verb reply
  image reply
  parameter p1,prompt="Text"

  qualifier abort          value(required,type=$number,
  qualifier all
  qualifier bell
  qualifier blank_tape    value(required,type=$number)
  qualifier disable       value(list)
  qualifier enable        value(list)
  qualifier initialize_tape value(required,type=$number)
  qualifier log           value(list)
  qualifier node          default
  qualifier notify        value(required,type=$number)
  qualifier pending
  qualifier shutdown
  qualifier status
  qualifier temporary
  qualifier terminal       value(list,required)
  qualifier to            value(required,type=$number)
  qualifier urgent
  qualifier username      value(list)
  qualifier wait

  disallow (any2 (abort, all, blank_tape, disable, enable, initialize_tape,
  log, pending, status, terminal, to, username))
  disallow (any2 (bell,
  abort, blank_tape, disable, enable, initialize_tape,
  log, pending, status, to))
  disallow (any2 (notify,
  abort, blank_tape, disable, enable, initialize_tape,
  log, pending, status, to))
  disallow (any2 (shutdown,
  abort, blank_tape, disable, enable, initialize_tape,
  log, pending, status, to))
  disallow (any2 (urgent,
  abort, blank_tape, disable, enable, initialize_tape,
  log, pending, status, to))
  disallow (any2 (wait,
  abort, blank_tape, disable, enable, initialize_tape,
  log, pending, status, to))
  disallow (shutdown and urgent)
  disallow (temporary and not enable)

define verb request
  image request
  parameter p1,prompt="Text"
  qualifier reply
  qualifier to          value(required,list)
```

\$ SET COMMAND SRC\$ : ACC.CLD,ANALYZE.CLD,BACKUP.CLD,CHECKSUM.CLD,CONVERT.CLD,COPY.CLD,CREATE.CLD,DCLINT.CLD,DELETE.CLD,DIFF.CLD,DIRECT

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Version: 'V04-000'

- V03-014 MCN0179 Maria del C. Nasr 9-Jul-1984  
Make /NOAUTHORIZE the default for RUNDET.
- V03-013 WMC0007 Wayne Cardoza 16-Jan-1983  
Remove all CHKPNT stuff.
- V03-012 WMC0006 Wayne Cardoza 14-Nov-1983  
New qualifier for .CHK file name.
- V03-011 TMK0001 Todd M. Katz 13-Nov-1983  
Add the qualifier job\_table\_quota to the run verb. This  
qualifier can be used to specify the job-wide logical  
name table creation quota when creating a detached  
process.
- V03-010 WMC0005 Wayne Cardoza 10-Nov-1983  
Allow checkpoint file name to be specified.
- V03-009 WMC0004 Wayne Cardoza 28-Jul-1983  
New checkpoint qualifier /WAIT
- V03-008 MTR0002 Mike Rhodes 12-Jul-1983  
Change /DELAY, /INTERVAL and /TIME\_LIMIT qualifier  
values to use the new '\$deltatime' token identifier.  
Correct the /PROCESS qualifiers to /PROCESS\_NAME.
- V03-007 WMC0003 Wayne Cardoza 21-Jun-983  
Allow /DEBUG on RUN/CHECK
- V03-006 RSH0026 R. Scott Hanna 24-May-1983  
Add SECURITY privilege
- V03-005 MTR0001 Mike Rhodes 23-May-1983  
Add SHARE privilege keyword.
- V03-004 PRB0175 Paul Beck 26-APR-1983 21:31:36  
Add TMPJNL and PRMJNL
- V03-003 WMC0002 Wayr Cardoza 14-Apr-1983  
Parameter is /DETACHED
- V03-002 WMC0001 Wayne Cardoza 13-Apr-1983  
/DETACH, /DUMP qualifiers
- V03-001 PCG0001 Peter George 13-Apr-1983  
Create RUN.CLD.

define type privileges  
keyword acct,negatable  
keyword ailspool,negatable  
keyword altpri,negatable  
keyword bugchk,negatable  
keyword bypass,negatable

```
57 keyword cmexec,negatable
58 keyword cmkrnl,negatable
59 keyword detach,negatable
60 keyword diagnose,negatable
61 keyword exquota,negatable
62 keyword group,negatable
63 keyword grpnam,negatable
64 keyword log_io,negatable
65 keyword mount,negatable
66 keyword netmbx,negatable
67 keyword oper,negatable
68 keyword pfnmap,negatable
69 keyword phy_io,negatable
70 keyword prmceb,negatable
71 keyword prmdbl,negatable
72 keyword prmjnl,negatable
73 keyword prmmbx,negatable
74 keyword pswapm,negatable
75 keyword same,negatable
76 keyword security,negatable
77 keyword setprv,negatable
78 keyword share,negatable
79 keyword shmem,negatable
80 keyword syslck,negatable
81 keyword sysgbl,negatable
82 keyword sysnam,negatable
83 keyword sysprv,negatable
84 keyword tmpjnl,negatable
85 keyword tmpmbx,negatable
86 keyword volpro,negatable
87 keyword world,negatable
88
89 ***JNL** define syntax run_checkpoint
90 ***JNL** image chkpntcmd
91 ***JNL** parameter pl,prompt='file',value(required,type=$infile)
92 ***JNL** qualifier error, value(required,type=$outfile)
93 ***JNL** qualifier input, value(required,type=$outfile)
94 ***JNL** qualifier output, value(required,type=$outfile)
95 ***JNL** qualifier priority, value(required)
96 ***JNL** qualifier privileges, value(required,list,type=privileges)
97 ***JNL** qualifier process_name, value(required)
98 ***JNL** qualifier resource_wait,default
99 ***JNL** qualifier service_failure
100 ***JNL** qualifier swapping, default
101 ***JNL** qualifier uic, value(required,type=$uic)
102 ***JNL** qualifier accounting, default
103 ***JNL** qualifier buffer_limit, value(required)
104 ***JNL** qualifier time_limit, value(required,type=$deltatime)
105 ***JNL** qualifier file_limit, value(required)
106 ***JNL** qualifier page_file, value(required)
107 ***JNL** qualifier queue_limit, value(required)
108 ***JNL** qualifier subprocess_limit,value(required)
109 ***JNL** qualifier maximum_working_set,value(required)
110 ***JNL** qualifier working_set, value(required)
111 ***JNL** qualifier authorize, default
112 ***JNL** qualifier ast_limit, value(required)
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113 !**JNL**      qualifier io_buffered, value(required)
114 !**JNL**      qualifier io_direct, value(required)
115 !**JNL**      qualifier enqueue_limit,value(required)
116 !**JNL**      qualifier extent, value(required)
117 !**JNL**      qualifier auto_restart
118 !**JNL**      qualifier paging_file, value(required,type=$outfile)
119 !**JNL**      qualifier detached
120 !**JNL**      qualifier dump
121 !**JNL**      qualifier debug
122 !**JNL**      qualifier wait, default
123 !**JNL**      qualifier chk_file, value(required,type=$outfile)
124
125 !**JNL**      define syntax run_restart
126 !**JNL**      image chr$tcmd
127 !**JNL**      parameter p1,prompt='File',value(required,type=$infile)
128 !**JNL**      qualifier error, value(required,type=$outfile)
129 !**JNL**      qualifier input, value(required,type=$outfile)
130 !**JNL**      qualifier output, value(required,type=$outfile)
131 !**JNL**      qualifier priority, value(required)
132 !**JNL**      qualifier privileges, value(required,list,type=privileges)
133 !**JNL**      qualifier process_name,value(required)
134 !**JNL**      qualifier resource_wait,default
135 !**JNL**      qualifier service_failure
136 !**JNL**      qualifier swapping, default
137 !**JNL**      qualifier uic, value(required,type=$uic)
138 !**JNL**      qualifier accounting, default
139 !**JNL**      qualifier buffer_limit, value(required)
140 !**JNL**      qualifier time_limit, value(required, type=$deltatime)
141 !**JNL**      qualifier file_limit, value(required)
142 !**JNL**      qualifier page_file, value(required)
143 !**JNL**      qualifier queue_limit, value(required)
144 !**JNL**      qualifier subprocess_limit,value(required)
145 !**JNL**      qualifier maximum_working_set,value(required)
146 !**JNL**      qualifier working_set, value(required)
147 !**JNL**      qualifier authorize, default
148 !**JNL**      qualifier ast_limit, value(required)
149 !**JNL**      qualifier io_buffered, value(required)
150 !**JNL**      qualifier io_direct, value(required)
151 !**JNL**      qualifier enqueue_limit,value(required)
152 !**JNL**      qualifier extent, value(required)
153 !**JNL**      qualifier auto_restart
154 !**JNL**      qualifier dump
155 !**JNL**      qualifier debug
156 !**JNL**      qualifier wait, default
157
158 define syntax run_process
159     image rundet
160
161 define verb run
162     synonym r
163     synonym ru
164     cliroutine run
165     cliflags(abbreviate)
166     prefix clisk_run
167     parameter p1,prompt='File',value(required,type=$infile)
168 !**JNL**      qualifier checkpoint, syntax=run_checkpoint
  
```

```
169 !**JNL**      qualifier restart,      syntax=run_restart
170      qualifier delay,      value(required, type=$deltatime),
171      syntax=run_process
172      qualifier error,      value(required, type=$outfile),
173      syntax=run_process
174      qualifier input,      value(required, type=$outfile),
175      syntax=run_process
176      qualifier interval,   value(required, type=$deltatime),
177      syntax=run_process
178      qualifier output,     value(required, type=$outfile),
179      syntax=run_process
180      qualifier priority,   value(required),
181      syntax=run_process
182      qualifier privileges, value(required, list, type=privileges),
183      syntax=run_process
184      qualifier process_name, value(required),
185      syntax=run_process
186      qualifier resource_wait, default, syntax=run_process
187      qualifier schedule,   value(required, type=$datetime),
188      syntax=run_process
189      qualifier service_failure, syntax=run_process
190      qualifier swapping,   default, syntax=run_process
191      qualifier uic,        value(required, type=$uic),
192      syntax=run_process
193      qualifier accounting, default, syntax=run_process
194      qualifier buffer_limit, value(required), syntax=run_process
195      qualifier time_limit,  value(required, type=$deltatime), syntax=run_process
196      qualifier file_limit,  value(required), syntax=run_process
197      qualifier page_file,   value(required), syntax=run_process
198      qualifier queue_limit, value(required), syntax=run_process
199      qualifier subprocess_limit, value(required), syntax=run_process
200      qualifier maximum_working_set, value(required), syntax=run_process
201      qualifier working_set, value(required), syntax=run_process
202      qualifier debug
203      qualifier authorize,   syntax=run_process
204      qualifier mailbox,     value(required), syntax=run_process
205      qualifier ast_limit,   value(required), syntax=run_process
206      qualifier io_buffered, value(required), syntax=run_process
207      qualifier io_direct,   value(required), syntax=run_process
208      qualifier enqueue_limit, value(required), syntax=run_process
209      qualifier extent,      value(required), syntax=run_process
210      qualifier detached,    syntax=run_process
211      qualifier dump,        syntax=run_process
212      qualifier job_table_quota, value(required), syntax=run_process
```

\$ SET COMMAND SRC\$ : ACC.CLD, ANALYZE.CLD, BACKUP.CLD, CHECKSUM.CLD, CONVERT.CLD, COPY.CLD, CREATE.CLD, DCLINT.CLD, DELETE.CLD, DIFF.CLD, DIRECT

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Version: 'V04-000'  
14 February 1984  
Command-line description file for RUNOFF

define type contents\_page\_options  
keyword running, negatable  
keyword level, value(required, type=\$number)

define type index\_page\_options  
keyword running, negatable

define syntax RUN\_CONTENTS  
image DSRTOC  
parameter p1, label=input, prompt='file', value(required, list, type=\$infile)  
qualifier bold  
qualifier deepest\_header, value(required, type=\$number), nonnegatable  
qualifier identification  
qualifier indent  
qualifier log  
qualifier output, value(type=\$outfile), default  
qualifier page\_numbers, value(required, list, type=contents\_page\_options), nonnegatable  
qualifier require, value(required, type=\$infile)  
qualifier section\_numbers  
qualifier underline

define syntax RUN\_INDEX  
image DSRINDEX  
parameter p1, label=input, prompt='file', value(required, list, type=\$infile)  
qualifier identification  
qualifier lines\_per\_page, value(required, type=\$number), nonnegatable  
qualifier log  
qualifier output, value(type=\$outfile), default  
qualifier page\_numbers, value(list, type=index\_page\_options), default  
qualifier require, value(required, type=\$infile)  
qualifier reserve, value(required, type=\$number)

define type debug\_options  
keyword all, default  
keyword conditionals  
keyword contents  
keyword files  
keyword index

define type message\_options  
keyword outp  
keyword user

define verb RUNOFF  
image RUNOFF  
parameter p1, label=p1, prompt='file', value(required, list, type=\$infile)  
qualifier backspace, placement=positional, nonnegatable  
qualifier bold, value(default=1, type=\$number), default, placement=positional  
qualifier change\_bars, value(default='|'), placement=positional  
qualifier contents, syntax=run\_contents

57 qualifier debug, value(list, type=debug\_options, default=ALL), placement=positional  
58 qualifier dec\_internal, value(list), placement=positional, nonnegatable  
59 qualifier device, value(required, list), placement=positional, nonnegatable  
60 qualifier down, value(default=5, type=\$number), placement=positional  
61 qualifier form\_size, value(required, type=\$number), nonnegatable  
62 qualifier index, syntax=run\_index  
63 qualifier intermediate, value(type=\$outfile), placement=positional  
64 qualifier log  
65 qualifier messages, value(required, type=message\_options, list), placement=positional, nonnegatable  
66 qualifier output, value(type=\$outfile), placement=positional  
67 qualifier overprint, default, placement=positional, nonnegatable  
68 qualifier pages, value(required), placement=positional, nonnegatable  
69 qualifier pause  
70 qualifier right, value(default=5, type=\$number), placement=positional  
71 qualifier sequence placement=positional  
72 qualifier simulate  
73 qualifier underline\_character, value(default=''), default, placement=positional  
74 qualifier separate\_underline, value(default='='), placement=positional, nonnegatable  
75 qualifier nonspacing\_underline, value(default=''), placement=positional, nonnegatable  
76 qualifier variant, value, placement=positional, nonnegatable

\$ SET COMMAND SRC\$:ACC.CLD,ANALYZE.CLD,BACKUP.CLD,CHECKSUM.CLD,CONVERT.CLD,COPY.CLD,CREATE.CLD,DCLINT.CLD,DELETE.CLD,DIFF.CLD,DIRECT



K 12  
14-JAN-1985 10:57  
14-JAN-1985 10:56

VAX/VMS Command Definition Utility (V4-001) Page 1  
\_S255\$DUA18:[CLD.BUGSRC]SDL.CLD;1 (1)

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```

```
Version: 'V04-000'

define syntax NOPARSE
  image SDLNPARSE
define verb SDL,
  image SDL,
  parameter p1, prompt='file',label=infile,value (required,list)
  qualifier LANGUAGES, value (required,list),placement=positional
  qualifier LIST, value,placement=positional
  qualifier DUMP, placement=positional,value
  qualifier PARSE, default,placement=positional,value
  qualifier NOPARSE, syntax=noparse
  qualifier HEADER, default,placement=positional
  qualifier COPYRIGHT, placement=positional,value
  qualifier COMMENTS, default, placement=positional,value
  qualifier NOCOMMENTS, placement=positional,value
  qualifier GLOBAL_DEFINITION, placement=positional,value
  qualifier VMS_DEVELOPMENT, placement=positional,value
```

```
& SET COMMAND SRC$ : ACC.CLD,ANALYZE.CLD,BACKUP.CLD,CHECKSUM.CLD,CONVERT.CLD,COPY.CLD,CREATE.CLD,DCLINT.CLD,DELETE.CLD,DIFF.CLD,DIRECT
```

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1  |
2  |
3  |
4  |
5  | define type search_matches
6  |     keyword and
7  |     keyword or,default
8  |     keyword nand
9  |     keyword nor
10 |
11 | define type search_formats
12 |     keyword passall
13 |     keyword text,default
14 |     keyword dump
15 |     keyword nonulls
16 |
17 | define verb search
18 |     image search
19 |     parameter p1,prompt='Filename(s)',value(required,list,type=$infile),
20 |         label=source
21 |     parameter p2,prompt='String(s)',value(required,list),label=string
22 |     qualifier exact
23 |     qualifier exclude,value(required,list),nonnegatable
24 |     qualifier format,value(type=search_formats,default=TEXT),
25 |         default,nonnegatable
26 |     qualifier heading,default
27 |     qualifier log
28 |     qualifier match,value(type=search_matches,default=OR),
29 |         default,nonnegatable
30 |     qualifier numbers
31 |     qualifier output,value(default=SYSS$OUTPUT,type=$outfile),default
32 |     qualifier remaining
33 |     qualifier statistics
34 |     qualifier window,value(default=5,list)
```

```
$ SET COMMAND SRCS:ACC.CLD,ANALYZE.CLD,BACKUP.CLD,CHECKSUM.CLD,CONVERT.CLD,COPY.CLD,CREATE.CLD,DCLINT.CLD,DELETE.CLD,DIFF.CLD,DIRECT
```

1 Don't forget the MCRSET.CLD file. It contains an equivalent set of  
2 definitions for MCR which should also be enhanced.

3  
4 Version: 'V04-000'

5  
6 Edit History:

7  
8 V03-086 JAK0226 J A Krycka 16-Aug-1984  
9 Change /OWNER to /OWNER\_UIC on SET QUEUE for consistency with  
10 other commands.

11  
12 V03-085 AEW0004 Anne E. Warner 02-Aug-1984  
13 Take out /WRITE and /CONTROLLER qualifiers from  
14 SEi DEVICE/SERVED again since the code has been fixed to  
15 accept this behavior.

16  
17 V03-084 CWM3084 CW Hobbs 29-Jul-1984  
18 Restore /WRITE and /CONTROLLER qualifiers to SET DEV /SERV

19  
20 V03-083 CWM3083 CW Hobbs 27-Jul-1984  
21 Comment out disallow references to /WRITE and /CONTROLLER  
22 in SET DEVICE /SERVED

23  
24 V03-082 AEW0003 Anne E. Warner 25-Jul-1984  
25 1. Take \$DELTATIME value out of SET VOLUME/RETENTION.  
26 This was added in V03-073.  
27 2. Comment out the qualifiers /[NO]WRITE and /CONTROLLER  
28 in SET DEVICE/SERVED.  
29 3. Make SYNTAX= qualifiers nonnegatable throughout SET.  
30 4. Make qualifiers negatable in SET:

31 ACCOUNTING PASSWORD  
32 CARD READER PROCESS  
33 DAYTIME PROTECTION  
34 DEVICE RMS DEFAULT  
35 DIRECTORY VOLUME  
36 FILE WORKING\_SET  
37 LOGINS  
38 MESSAGE  
39 MAGTAPE

40 V03-081 JAK0220 J A Krycka 12-Jul-1984  
41 Add [NO]FEED option to the /DEFAULT qualifier.

42  
43 V03-080 DAS0003 David Solomon 09-Jul-1984  
44 Add SET VOLUME/REBUILD.

45  
46 V03-079 LMP0260 L. Mark Pilant, 25-Jun-1984 14:08  
47 Add a qualifier, /DEFAULT, to be used with SET ACL/LIKE to  
48 only copy default option ACEs.

49  
50 V03-078 JLV0354 Jake VanNoy 12-APR-1984  
51 Add SET HOST/DTE/DIAL

52  
53 V03-077 ROW0349 Ralph O. Weber 12-APR-1984  
54 Add SET DEVICE/[NO]DIAGNOSTIC.  
55 Add SET HOST/HSC with executed image HSCPAD.  
56 Add SET PRINTER /FORM\_UNIT /TRUNCATE /TAB /SIXELS /BITMAPPED

N 12  
14-JAN-1985 10:57  
14-JAN-1985 10:56

VAX/VMS Command Definition Utility (V4-001)  
\_S255\$DUA18:[CLD.BUGSRC]SET.CLD;1 (1)

Page 2

57 for Elliott.  
58  
59 V03-076 PCG0019 Peter George 30-Mar-1984  
60 Add SET RMS/NETWORK BLOCK COUNT.  
61 Add SET DEVICE/SERVED/NOWRITE/CONTROLLER.  
62 Add /LOG qualifier to SET TERM/X29.  
63 Require SET TERM/X29/HOLD\_TIMER to have a value.  
64 Make the PSISCTX29\_ACTION keywords negatable.  
65  
66 V03-075 LMP0217 L. Mark Pilant, 24-Mar-1984 22:22  
67 Change all references to SETACL to be SETSHOACL.  
68  
69 V03-074 BLS0291 Benn Schreiber 24-MAR-1984  
70 SET PASSWORD is now in SETPO  
71  
72 V03-073 PCG0018 Peter George 15-Mar-1984  
73 Remove unnecessary PREFIX statements.  
74 Specify SET VOL/RETENTION takes delta time values.  
75  
76 V03-072 HWS0030 Harold Schultz 14-Mar-1984  
77 Fix HWS0024  
78  
79 V03-071 PRB0322 Paul Beck 11-MAR-1984 13:17  
80 Add SET CLUSTER /QUORUM  
81  
82 V03-070 LMP0210 L. Mark Pilant, 9-Mar-1984 13:46  
83 Change the /MODIFY qualifier on the various SET xxx/ACL  
84 commands to be /REPLACE.  
85  
86 V03-069 HWS0024 Harold Schultz 09-Mar-1984  
87 Remove NETWORK SPECIFIC keyword and add /PERMANENT  
88 qualifier to SET TERM/X29 command.  
89  
90 V03-068 PLL0001 Pamela Levesque 07-Mar-1984  
91 Remove terminal definitions from SET TERM/DEVICE.  
92 (to allow termtable defined terminals)  
93  
94 V.3 067 SHZ0003 Stephen H. Zalewski, 06-Mar-1984  
95 Disallow SET PASSWORD/SYSTEM/SECONDARY.  
96  
97 V03-066 HWS0018 Harold Schultz 06-Mar-1984  
98 Integrate in SET HOST/X29, SET TERM/v29 and associated  
99 qualifiers.  
100  
101 V03-065 EMD0057 Ellen M. Dusseault 02-Mar-1984  
102 Add new terminal device name, PRO\_SERIES for SET  
103 TERMINAL/DEVICE=  
104  
105 V03-064 EMD0052 Ellen M. Dusseault 28-Feb-1984  
106 Allow SET TERMINAL qualifier, DEC\_CRT to have a value  
107 and also a list of elements.  
108  
109 V03-063 MCN0154 Maria del C. Nasr 27-Feb-1984  
110 Add DETACHED, SUPROCESS as keywords to /ENABLE in  
111 SET ACCOUNTING.  
112

113	V03-062	RSH0106	R. Scott Hanna	24-Feb-1984	
114			Fix field test 1 problems with SET AUDIT.		
115					
116	V03-061	PCG0017	Peter George	14-Feb-1984	
117			Change behavior of queue parameter, /BLOCK_LIMIT		
118			qualifier, and /PAGE qualifier to SET QUEUE.		
119					
120	V03-060	SHZ0002	Stephen H. Zalewski	13-Feb-1984	
121			Add SET PASSWORD/SECONDARY.		
122					
123	V03-059	DAS0002	David Solomon	6-Feb-1984	
124			Remove /JOURNAL keyword from SET FILE and SET AUDIT.		
125					
126	V03-058	LMP0185	L. Mark Pilant,	3-Feb-1984	19:54
127			Add a support for a SET DEVICE/ACL command.		
128					
129	V03-057	LMP0185	L. Mark Pilant,	1-Feb-1984	12:18
130			Add support for device ACLs.		
131					
132	V03-053	MCN0146	Maria del C. Nasr	1-Feb-1984	
133			Add MESSAGE keyword to /ENABLE for SET ACCOUNTING		
134					
135	V03-052	MMD0230	Meg Dumont	1-Feb-1984	
136			Add /PROTOCOL and values to SET TERMINAL		
137					
138	V03-051	EMD0042	Ellen M. Dusseault	31-Feb-1984	
139			add /FALLBACK to SET PRINTER		
140					
141	V03-050	SHZ0001	Stephen H. Zalewski	03-Jan-1984	
142			add /GENERATE to SET PASSWORD.		
143					
144	V03-049	AEW0002	Anne Warner	15-Dec-1983	
145			Add /PROTECTION to SET FILE		
146					
147	V03-048	AEW0001	Anne Warner	08-Nov-1983	
148			Add /UNLOCK to SET FILE		
149					
150	V03-047	GAS0175	Gerry Smith	30-Aug-1983	
151			Add SET BROADCAST.		
152					
153	V03-046	PCG0016	Peter George	25-Aug-1983	
154			Add SET HOST/SNA /CHARACTER_SET qualifier.		
155					
156	V03-045	MIR0083	Michael I. Rosenblum	23-Aug-1983	
157			Add SYSPASSWORD to set terminal.		
158					
159	V03-044	BLS0232	Benn Schreiber	5-Aug-1983	
160			Add SET TERM/PASTHRU, which was omitted		
161					
162	V03-043	MLJ0043	Martin L. Jack	29-Jul-1983	
163			Enhance SET QUEUE.		
164					
165	V03-042	GAS0153	Gerry Smith	27-Jul-1983	
166			Add SET AUDIT.		
167					
168	V03-041	PCG0015	Peter George	27-Jul-1983	

C 13  
14-JAN-1985 10:57  
14-JAN-1985 10:56

VAX/VMS Command Definition Utility (V4-001) Page 4  
\_S255\$DUA18:[CLD.BUGSRC]SET.CLD;1 (1)

169	Add SET HOST/BTS			
170				
171	V03-040 PCG0015	Peter George	21-Jun-1983	
172	Change \$PARENTHESED_VALUE to \$ACL.			
173				
174	V03-039 PCG0014	Peter George	21-Jun-1983	
175	Put \$DELTATIME back in SET OUTPUT_RATE.			
176				
177	V03-038 GAS0139	Gerry Smith	17-Jun-1983	
178	Add SET PASSWORD/SYSTEM.			
179				
180	V03-037 JLV0271	Jake VanNoy	14-JUN-1983	
181	Add SET HOST/LOG=output_file			
182				
183	V03-036 PCG0013	Peter George	31-May-1983	
184	Make SET OUTPUT_RATE work in build.			
185				
186	V03-035 MLJ0035	Martin L. Jack	27-May-1983	
187	Change set host/old default.			
188				
189	V03-034 JLV0256	Jake VanNoy	26-May-1983	
190	Change set host/old default.			
191				
192	V03-033 RSH0027	R. Scott Hanna	24-May-1983	
193	Add SECURITY privilege			
194				
195	V03-032 LMP0117	L. Mark Pilant,	19-May-1983 10:48	
196	Add the new command SET FILE/ACL.			
197				
198	V03-C31 GAS0132	Gerry Smith	19-May-1983	
199	Add HIGHWATER, ERASE_ON DELETE, UNLOAD, and			
200	MOUNT VERIFICATION to SET VOLUME. Also remove the			
201	defaults for SET MESSAGE, since it makes more sense			
202	to change the documentation than the way SET MESS works.			
203				
204	V03-030 PCG0012	Peter George	03-May-1983	
205	Add SET OUTPUT_RATE, SET VERIFY=(PROCEDURE,IMAGE)			
206				
207	V03-029 PCG0011	Peter George	30-Apr-1983	
208	Change SET PROMPT/CONTROL to /CARRIAGE_CONTROL.			
209				
210	V03-028 MIR0042	Michael I. Rosenblum	29-Apr-1983	
211	Move important information to the top of the module			
212				
213	V03-027 MLJ0027	Martin L. Jack	27-Apr-1983	
214	Changes for new QUEMAN image.			
215				
216	V03-026 GAS0127	Gerry Smith	27-Apr-1983	
217	Make SET MESSAGE default to /FAC/ID/SEV/TEXT.			
218				
219	V03-025 KPL0001	Peter Lieberwirth	27-Apr-1983	
220	Add qualifiers AI JOURNAL, AT JOURNAL, and BI JOURNAL			
221	to SET FILE to permit specification of journal names.			
222	Remove EXPIRED qualifier from SET FILE for Gerry.			
223				
224	V03-024 PRB0175	Paul Beck	27-APR-1983 10:36:50	

225 Add privileges TMPJNL and PRMJNL.  
226  
227 V03-023 MIR0035 Michael I. Rosenblum 18-Apr-1983  
228 Add qualifiers DISMISS\_PARITY, APPLICATIONS, NUMERIC  
229 FRAME, add Vt200 support and associated qualifiers.  
230  
231 V03-022 PCG0010 Peter George 13-Apr-1983  
232 Add SET RESTART\_VALUE.  
233  
234 V03-021 GAS0116 Gerry Smith 12-Apr-1983  
235 Add common qualifiers to SET FILE, SET DIRECTORY  
236  
237 V03-020 WMC0020 Wayne Cardoza 11-Apr-1983  
238 Add SET PROC/DUMP  
239  
240 V03-019 GAS0112 Gerry Smith 29-Mar-1983  
241 Add labels for the parts of set which are being  
242 converted to the new CLI interface.  
243  
244 V03-018 PCG0009 Peter George 28-Mar-1983  
245 Add SET KEY.  
246 Delete MCR-specific statements.  
247  
248 V03-017 PCA1008 Paul C. Anagnostopoulos 25-Mar-1983  
249 Replace definition of SET COMMAND for new CDU.  
250 Make all necessary changes for new CDU.  
251  
252 V03-016 GAS0106 Gerry Smith 12-Mar-1983  
253 Add five new privileges, as well as /LOG to  
254 many new SET options.  
255  
256 V03-015 MLJ0015 Martin L. Jack 01-Mar-1983  
257 Changes for new QUEMAN image.  
258  
259 V03-014 PCA1008 Paul C. Anagnostopoulos 11 Feb 1983  
260 Add a comment about the equivalent CLD for MCR.  
261  
262 V03-013 JLV0229 Jake VanNoy 11-Feb-1983  
263 Add temporary /OLD to SET HOST as a means of using  
264 either protocol to remote node.  
265  
266 V03-012 PCA1008 Paul C. Anagnostopoulos 10 Feb 1983  
267 Remove MCRIGNORE flag from SET\_PROMPT syntax definition, as  
268 the new CDU won't support it.  
269  
270 V03-011 GAS0105 Gerry Smith 27-Jan-1983  
271 Add /LOG qualifier.  
272  
273 V03-010 MLJ0010 Martin L. Jack 01-Jan-1983  
274 Changes for new QUEMAN image.  
275  
276 V03-009 PCG0008 Peter George 19-Nov-1982  
277 Correct placement of PROMPT keyword.  
278  
279 V03-008 PCG0007 Peter George 14-Nov-1982  
280 Set MCRIGNORE flag for SET PROMPT.

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281  
282 V03-007 PCG0006 Peter George 29-Oct-1982  
283 Add SET PROMPT. Fix SET TIME.  
284  
285 V03-006 PCG0005 Peter George 21-Oct-1982  
286 Make SET PROTECTION work.  
287  
288 V03-005 DWT0061 David Thiel 20-Oct-1982  
289 Use keywords for value of /CLI qualifier  
290  
291 V03-004 PCG0004 Peter George 19-Oct-1982  
292 Correct spelling of SET CONTROL Y keyword.  
293 Copy previous parameter definitions into each  
294 DEFINE SYNTAX statement.  
295  
296 V03-003 PCG0003 Peter George 06-Oct-1982  
297 Correct placement of /PROTECTION and /DEFAULT  
298 qualifiers to SET PROTECTION. Put mcroptdelim  
299 flag into cliflags construct.  
300  
301 V03-002 PCG0002 Peter George 03-Aug-1982  
302 Add SET HOST/SNA  
303  
304 V03-001 PCG0001 Peter George 15-Jul-1982  
305 Allow negated privileges  
306  
307 define type file_access_types  
308 keyword all  
309 keyword control  
310 keyword delete  
311 keyword execute  
312 keyword read  
313 keyword write  
314  
315 define type file_audit_types  
316 keyword all  
317 keyword bypass, value(list,default=all,type=file_access_types)  
318 keyword downgrade, value(list,default=all,type=file_access_types)  
319 keyword failure, value(list,default=all,type=file_access_types)  
320 keyword grpdrv, value(list,default=all,type=file_access_types)  
321 keyword readall, value(list,default=all,type=file_access_types)  
322 keyword success, value(list,default=all,type=file_access_types)  
323 keyword sysprv, value(list,default=all,type=file_access_types)  
324 keyword upgrade, value(list,default=all,type=file_access_types)  
325  
326 define type breakin_types  
327 keyword al  
328 keyword detached  
329 keyword dialup  
330 keyword local  
331 keyword network  
332 keyword remote  
333  
334 define type loginout_types  
335 keyword all  
336 keyword batch
```



```
337 keyword detached
338 keyword dialup
339 keyword local
340 keyword network
341 keyword remote
342 keyword subprocess
343
344 define type audit_types
345 keyword acl
346 keyword all
347 keyword authorization
348 keyword file_access, value(required,list,type=file_audit_types)
349 keyword breakin, value(required,list,type=breakin_types)
350 keyword logfailure, value(required,list,type=loginout_types)
351 keyword login, value(required,list,type=loginout_types)
352 keyword logout, value(required,list,type=loginout_types)
353 keyword mount
354
355 define type keep_file
356 keyword recovery
357 keyword journal
358
359 define type mode_types
360 keyword prompt, default,negatable
361
362 define type acl_objects
363 keyword file
364 keyword device
365 keyword queue
366 keyword event_cluster
367 keyword logical_name_table
368 keyword process
369 keyword global_section
370
371 define type skiptypes
372 keyword end_of_tape
373 keyword files,value
374 keyword blocks,value
375 keyword records,value
376
377 define type print_bft
378 keyword all,default
379 keyword one
380
381 define type defaults
382 keyword burst,negatable,value(type=print_bft)
383 keyword feed,negatable
384 keyword flag,negatable,value(type=print_bft)
385 keyword trailer,negatable,value(type=print_bft)
386
387 define type retain
388 keyword all,default
389 keyword error
390
391 define type protection
392 keyword system,value
```

```
393 keyword group,value
394 keyword owner,value
395 keyword world,value
396
397 define type control_keys
398 keyword t
399 keyword y
400
401 define type verify_keys
402 keyword procedure,negatable
403 keyword image,negatable
404
405 define type privileges
406 keyword acct,negatable
407 keyword allspool,negatable
408 keyword altpri,negatable
409 keyword bugchk,negatable
410 keyword bypass,negatable
411 keyword cmexec,negatable
412 keyword cmkrnl,negatable
413 keyword detach,negatable
414 keyword diagnose,negatable
415 keyword downgrade,negatable
416 keyword exquota,negatable
417 keyword group,negatable
418 keyword grpnam,negatable
419 keyword grppriv,negatable
420 keyword log_io,negatable
421 keyword mount,negatable
422 keyword netmbx,negatable
423 keyword oper,negatable
424 keyword pfnmap,negatable
425 keyword phy_io,negatable
426 keyword prmceb,negatable
427 keyword prmdbl,negatable
428 keyword prmjnl,negatable
429 keyword prmbx,negatable
430 keyword pswapm,negatable
431 keyword readall,negatable
432 keyword same,negatable
433 keyword security,negatable
434 keyword setpriv,negatable
435 keyword share,negatable
436 keyword shmem,negatable
437 keyword syslck,negatable
438 keyword sysdbl,negatable
439 keyword sysnam,negatable
440 keyword syspriv,negatable
441 keyword tmpjnl,negatable
442 keyword tmpmbx,negatable
443 keyword upgrade,negatable
444 keyword volpro,negatable
445 keyword world,negatable
446
447 define type accounting_types
448 keyword batch
```

```
449 keyword interactive
450 keyword login_failure
451 keyword print
452 keyword process
453 keyword network
454 keyword image
455 keyword message
456 keyword detached
457 keyword subprocess
458
459 define type brdcst_types
460 keyword all
461 keyword none
462 keyword general,negatable
463 keyword phone,negatable
464 keyword mail,negatable
465 keyword queue,negatable
466 keyword shutdown,negatable
467 keyword urgent,negatable
468 keyword dcl,negatable
469 keyword opcom,negatable
470 keyword user1,negatable
471 keyword user2,negatable
472 keyword user3,negatable
473 keyword user4,negatable
474 keyword user5,negatable
475 keyword user6,negatable
476 keyword user7,negatable
477 keyword user8,negatable
478 keyword user9,negatable
479 keyword user10,negatable
480 keyword user11,negatable
481 keyword user12,negatable
482 keyword user13,negatable
483 keyword user14,negatable
484 keyword user15,negatable
485 keyword user16,negatable
486
487 define type journal_keywords
488 keyword ai,negatable,value
489 keyword at,negatable,value
490 keyword bi,negatable,value
491 keyword never_ru,negatable
492 keyword only_ru,negatable
493 keyword ru,negatable
494
495 define type schedule
496 keyword size,negatable
497
498 define type separate
499 keyword burst,negatable
500 keyword flag,negatable
501 keyword reset,negatable,value(required,list)
502 keyword trailer,negatable
503
504 define type protocol_types
```

```
505 keyword none
506 keyword ddcmp
507
508 define type psisetx29_int_brk
509 keyword action negatable,value(type=psisetx29_action,required,list)
510 label=psisetx29_action
511 keyword string negatable,value(required),label=psisetx29_string
512
513 define type psisetx29_action
514 keyword purge negatable,label=psisetx29_purge
515 keyword reset negatable,label=psisetx29_reset
516 keyword clear negatable,label=psisetx29_clear
517
518 define type x29_param_type
519 keyword break, label=x29_break,negatable,
520 value(type=$number,default=1)
521 keyword 7, label=x29_break_n,
522 value(required,type=$number)
523 keyword crfill, label=x29_crfill,negatable,
524 value(type=$number,default=1)
525 keyword 9, label=x29_crfill_n,
526 value(required,type=$number)
527 keyword delete, label=x29_delete,negatable,
528 value(type=$number,default=1)
529 keyword 16, label=x29_delete_n,
530 value(required,type=$number)
531 keyword discard_output, label=x29_discard_output,negatable,
532 value(type=$number,default=1)
533 keyword 8, label=x29_discard_output_n,
534 value(required,type=$number)
535 keyword echo, label=x29_echo,negatable,
536 value(type=$number,default=1)
537 keyword 2, label=x29_echo_n,
538 value(required,type=$number)
539 keyword edit, label=x29_edit,negatable,
540 value(type=$number,default=1)
541 keyword 15, label=x29_edit_n,
542 value(required,type=$number)
543 keyword escape_character, label=x29_escape,negatable,
544 value(type=$number,default=1)
545 keyword 1, label=x29_escape_n,
546 value(required,type=$number)
547 keyword forwarding_characters, label=x29_forwarding,negatable,
548 value(type=$number,default=1)
549 keyword 3, label=x29_forwarding_n,
550 value(required,type=$number)
551 keyword hostsync, label=x29_hostsync,negatable,
552 value(type=$number,default=1)
553 keyword 5, label=x29_hostsync_n,
554 value(required,type=$number)
555 keyword lfill, label=x29_lfill,negatable,
556 value(type=$number,default=1)
557 keyword 14, label=x29_lfill_n,
558 value(required,type=$number)
559 keyword line_delete, label=x29_line_delete,negatable,
560 value(type=$number,default=1)
```

```

561 keyword 17, label=x29_line_delete_n,
562 value(required,type=$number)
563 keyword messages, label=x29_messages_negatable,
564 value(type=$number,default=1)
565 keyword 6, label=x29_messages_n,
566 value(required,type=$number)
567 keyword new_line, label=x29_new_line_negatable,
568 value(type=$number,default=1)
569 keyword 13, label=x29_new_line_n,
570 value(required,type=$number)
571 keyword redisplay_line, label=x29_redisplay_line_negatable,
572 value(type=$number,default=1)
573 keyword 18, label=x29_redisplay_line_n,
574 value(required,type=$number)
575 keyword speed, label=x29_speed_negatable,
576 value(type=$number,default=1)
577 keyword 11, label=x29_speed_n,
578 value(required,type=$number)
579 keyword timeout, label=x29_timeout_negatable,
580 value(type=$number,default=1)
581 keyword 4, label=x29_timeout_n,
582 value(required,type=$number)
583 keyword ttsync, label=x29_ttsync_negatable,
584 value(type=$number,default=1)
585 keyword 12, label=x29_ttsync_n,
586 value(required,type=$number)
587 keyword wrap, label=x29_wrap_negatable,
588 value(type=$number,default=1)
589 keyword 10, label=x29_wrap_n,
590 value(required,type=$number)
591
592 define syntax acledit
593 image acledt
594 parameter p1,label=option,value(required)
595 parameter p2,prompt="Object Name",value(required,type=$infile),label=input
596 qualifier journal, default,value(type=$infile)
597 qualifier recover, value(type=$infile)
598 qualifier keep, value(list,type=keep_file)
599 qualifier mode, default,value(type=mode_types)
600 qualifier object_type, value(type=acl_objects)
601
602 define syntax set_accounting
603 parameter p1,label=option,value(required)
604 qualifier disable, value(list,type=accounting_types)
605 qualifier enable, value(list,type=accounting_types)
606 qualifier new_file
607 qualifier log
608
609 define syntax set_acl
610 image setshoacl
611 parameter p1,label=option,value(required)
612 parameter p2,prompt="Object",value(required),label=input
613 qualifier acl, value(list,type=$acl)
614 qualifier after, value(required,type=$acl)
615 qualifier backup
616 qualifier before, value(default=today)

```

```

617     qualifier by_owner,      value(type=$uic)
618     qualifier confirm
619     qualifier created
620     qualifier default
621     qualifier delete
622     qualifier edit,          syntax=acredit,nonnegatable
623     qualifier exclude,      value(required,list)
624     qualifier expired
625     qualifier like,         value(required,type=set_acl_like)
626     qualifier log
627     qualifier modified
628     qualifier new
629     qualifier object_type,   value(type=acl_objects)
630     qualifier replace,      value(required,list,type=$acl)
631     qualifier since,        value(default=today)
632
633 define type set_acl_like
634     keyword object_name,     value(required)
635     keyword object_type,     value(required,type=acl_objects)
636
637 define type dial_keywords
638     keyword number,          value(required)
639     keyword modem_type,      value(default=DF03),default
640
641 define syntax set_audit
642     parameter p1,label=option,value(required)
643     disallow not_alarm
644     disallow not_enable and not_disable
645     qualifier alarm,         nonnegatable
646     qualifier disable,       nonnegatable,value(required,list,type=audit_types)
647     qualifier enable,        nonnegatable,value(required,list,type=audit_types)
648     qualifier log,           nonnegatable
649
650 define syntax set_broadcast
651     parameter p1,label=option,value(required,list,type=set_options)
652     noqualifiers
653
654 define syntax set_card_reader
655     parameter p1,label=option,value(required)
656     parameter p2,label=device,prompt="Device",value(required,type=$device)
657     qualifier 026
658     qualifier 029
659     qualifier log
660
661 define syntax set_cluster
662     qualifier quorum,        value,nonnegatable
663
664 define syntax set_control
665     parameter p1,label=option,value(required)
666     noqualifiers
667     cliroutine setctly
668
669 define syntax set_device
670     parameter p1,label=option,value(required)
671     parameter p2,label=file,prompt="Device",value(required,type=$device)
672     qualifier spooled,       value(list)

```

```

673     qualifier error_logging
674     qualifier available
675     qualifier dual_port
676     qualifier log
677     qualifier served
678     qualifier write
679     ! qualifier controller, value(required)
680     qualifier diagnostic
681
682     qualifier acl,          syntax=set_dev_acl,nonnegatable,
683                             value(list,type=$acl)
684     qualifier after,       value(required,type=$acl)
685     qualifier default
686     qualifier delete
687     qualifier edit,       syntax=acledit,nonnegatable
688     qualifier like,       value(required,type=$device)
689     qualifier new
690     qualifier replace,    value(required,list,type=$acl)
691     ! disallow (write or controller or neg write) and not served
692
693 define syntax set_dev_acl
694     image setshoacl
695     parameter p1,label=option,value(required)
696     parameter p2,prompt="Device",value(list,required,type=$infile),label=input
697
698 define syntax set_default
699     cliroutine setdefault
700     parameter p1,label=option,value(required)
701     parameter p2,prompt="Directory",value(required,type=$directory)
702     noqualifiers
703
704 define syntax set_directory
705     parameter p1,label=option,value(required)
706     parameter p2,label=directory,prompt="Directory",value(list,required,impcat,type=$directory)
707     qualifier confirm
708     qualifier log
709     qualifier owner_uic,   value(type=$uic)
710     qualifier version_limit, value
711     qualifier exclude,   value(required,list)
712     qualifier before,    value(default=today)
713     qualifier since,     value(default=today)
714     qualifier backup
715     qualifier created
716     qualifier modified
717     qualifier expired
718     qualifier by_owner,  value(type=$uic)
719     qualifier acl,       syntax=set_dir_acl,
720                             value(list,type=$acl),nonnegatable
721     qualifier after,     value(required,type=$acl)
722     qualifier default
723     qualifier delete
724     qualifier edit,     syntax=acledit,nonnegatable
725     qualifier like,     value(required,type=$infile)
726     qualifier new
727     qualifier replace,   value(required,list,type=$acl)
728

```

```
729 define syntax set_dir_acl
730     image setshoacl
731     parameter p1,label=option,value(required)
732     parameter p2,prompt="Directory",value(list,required,type=$infile),label=input
733
734 define syntax set_file
735     parameter p1,label=option,value(required)
736     parameter p2,label=file,prompt="file",value(list,impcat,required,type=$infile)
737     qualifier backup
738     qualifier confirm
739     qualifier data_check,          value(list)
740     qualifier end_of_file,
741     qualifier enter,              value(required,type=$infile)
742     qualifier erase_on_delete
743     qualifier expiration_date,    value(required,type=$datetime)
744     qualifier extension,          value
745     qualifier global_buffers,     value(required)
746     !**JNL**     qualifier journal, value(required,list,
747     !**JNL**                                     type=journal_keywords),nonnegatable
748     qualifier log
749     qualifier nodirectory
750     qualifier owner_uic,          value(type=$infile)
751     qualifier record_protection, value
752     qualifier truncate
753     qualifier remove
754     qualifier version_limit,     value
755     qualifier exclude,          value(required,list)
756     qualifier before,           value(default=today)
757     qualifier since,            value(default=today)
758     qualifier created
759     qualifier modified
760     qualifier by_owner,         value(type=$uic)
761     qualifier acl,              syntax=set_file_acl,
762                                     value(list,type=$acl),nonnegatable
763     qualifier after,             value(required,type=$acl)
764     qualifier default
765     qualifier delete
766     qualifier edit,              syntax=acledit,nonnegatable
767     qualifier like,              value(required,type=$infile)
768     qualifier new
769     qualifier replace,           value(required,list,type=$acl)
770     qualifier unlock,
771     qualifier protection,       value(list,type=protection)
772
773 define syntax set_file_acl
774     image setshoacl
775     parameter p1,label=option,value(required)
776     parameter p2,prompt="File",value(list,required,type=$infile),label=input
777
778 define syntax set_output_rate
779     cliroutine setflush
780     parameter p1,label=option,value(required,type=set_option);
781
782 define syntax set_host_bts
783     image btslnk
784     qualifier exit_key,          label=exitkey,nonnegatable,value(required)
```



```

785
786 define syntax set_host_hsc
787     image hscpad
788     noqualifiers
789
790 define syntax set_host_sna
791     image snaterm
792     qualifier access_name, label=snaterm_access_name,
793         value(required),nonnegatable,placement=global
794     qualifier session_address, label=snaterm_session_addr,
795         value(required),nonnegatable,placement=global
796     qualifier circuit, label=snaterm_circuit,
797         value(required),nonnegatable,placement=global
798     qualifier application_name, label=snaterm_appl_name,
799         value(required),nonnegatable,placement=global
800     qualifier logon_mode, label=snaterm_logon_mode,
801         value(required),nonnegatable,placement=global
802     qualifier user_name, label=snaterm_user_name,
803         value(required),nonnegatable,placement=global
804     qualifier data, label=snaterm_data,
805         value(required),nonnegatable,placement=global
806     qualifier password, label=snaterm_password,
807         value(required),nonnegatable,placement=global
808     qualifier printer, label=snaterm_printer,
809         value(required,type=$outfile),
810         nonnegatable,placement=global
811     qualifier wait, label=snaterm_wait,placement=global
812     qualifier character_set, label=snaterm_character_set,
813         value(required,type=$infile),nonnegatable
814
815 define syntax set_host_x29
816     image psipad
817     parameter p1, label=option,value(required)
818     parameter p2, label=psipad_dte,prompt='Node',value(required)
819     qualifier ccitt, label=psipad_ccitt,syntax=set_host_x29_ccitt,
820         nonnegatable
821     qualifier closed_user_group, label=psipad_cug,nonnegatable,value
822     qualifier default_escape_character, label=psipad_dle,default,
823         value(default=P)
824     qualifier facilities, label=psipad_facilities,
825         value(required,list,type=$number)
826     qualifier fast_select, label=psipad_fast_select
827     qualifier local_dte, label=psipad_local_dte,value(required)
828     qualifier log, label=psipad_log,
829         value(type=$outfile,default=PSIPAD.LOG)
830     qualifier packet_size, label=psipad_packet_size,
831         value(type=$number,required)
832     qualifier parameters, label=psipad_parameters,
833         value(type=x29_param_type,list,required)
834     qualifier profile, label=psipad_profile,value(required,list)
835     qualifier protocol_identifier, label=psipad_protocol_id,nonnegatable,
836         value(required)
837     qualifier reverse_charging, label=psipad_reverse
838     qualifier statistics, label=psipad_statistics,default
839     qualifier subaddress, label=psipad_subaddress,value(required)
840     qualifier thrupt_class, label=psipad_thruput_class,

```

```
841          value(required,type=$number)
842  qualifier user_data,    label=psipad_user_data,value(required)
843  qualifier vms_mode,    label=psipad_vms_mode
844  qualifier window_size, label=psipad_window_size,
845                          value(required,type=$number)
846  disallow psipad_parameters.x29_speed
847  disallow psipad_parameters.x29_speed_n
848
849  define      syntax set_host_x29_ccitt
850  parameter p1,          label=option,value(required)
851  parameter p2,          label=psipad_dte,prompt='Node'
852  disallow <set_host_x29>psipad_parameters.x29_speed
853  disallow <set_host_x29>psipad_parameters.x29_speed_n
854  disallow not psipad_dte and (
855                          <set_host_x29>psipad_cug or
856                          <set_host_x29>psipad_facilities or
857                          <set_host_x29>psipad_fast_select or
858                          <set_host_x29>psipad_local_dte or
859                          <set_host_x29>psipad_packet_size or
860                          <set_host_x29>psipad_protocol_id or
861                          <set_host_x29>psipad_reverse or
862                          <set_host_x29>psipad_subaddress or
863                          <set_host_x29>psipad_thruput_class or
864                          <set_host_x29>psipad_user_data or
865                          <set_host_x29>psipad_window_size )
866
867  define syntax set_host
868  image rtpad
869  parameter p1,label=option,value(required)
870  parameter p2,prompt='Node',value(required,type=$node),
871          label=node
872  qualifier sna,          nonnegatable,syntax=set_host_sna
873  qualifier bts,          nonnegatable,syntax=set_host_bts
874  qualifier old,          label=old
875  qualifier log,          label=log,
876                          value(default=SETHOST.LOG,type=$outfile)
877  qualifier dte,          label=dte
878  qualifier dial,         value(list,type=dial_keywords)
879  qualifier hsc,          nonnegatable,syntax=set_host_hsc
880  qualifier x29,          nonnegatable,syntax=set_host_x29
881
882  define syntax set_key
883  prefix clisk_stky_
884  cliroutine setkey_
885  qualifier state,value(required)
886  qualifier log
887
888  define syntax set_logins
889  parameter p1,label=option,value(required)
890  qualifier interactive, value
891
892  define syntax set_magtape
893  parameter p1,label=option,value(required)
894  parameter p2,label=device,prompt='Device',value(required,type=$device)
895  qualifier density,      value(required)
896  qualifier rewind
```

```
897     qualifier unload
898     qualifier logsoft
899     qualifier log
900     qualifier end_of_file,
901     qualifier skip,          value(required,type=skiptypes)
902
903 define syntax set_message
904     image setp0
905     parameter p1,label=option,value(required)
906     parameter p2,label=file,prompt='File',value(type=$infile)
907     qualifier delete,
908     qualifier facility
909     qualifier ident
910     qualifier severity
911     qualifier text
912     qualifier language,      value(required)
913
914 define syntax set_on
915     cliroutine seton
916     parameter p1,label=option,value(required)
917     noqualifiers
918
919 define syntax set_password
920     image setp0
921     parameter p1,label=option,value(required)
922     qualifier generate      value(type=$number)
923     qualifier secondary
924     qualifier system
925
926     disallow secondary and system
927
928 define syntax set_printer
929     parameter p1,label=option,value(required)
930     parameter p2,label=device,prompt='Device',value(required,type=$device)
931     qualifier cr
932     qualifier ff
933     qualifier uppercase
934     qualifier lowercase
935     qualifier lall          nonnegatable
936     qualifier la180        nonnegatable
937     qualifier lp11         nonnegatable
938     qualifier page,        default,value,nonnegatable
939     qualifier unknown      nonnegatable
940     qualifier width,       default,value,nonnegatable
941     qualifier passall
942     qualifier fallback
943     qualifier dargvu
944     qualifier form_unit
945     qualifier wrap
946     qualifier printall
947     qualifier log
948     qualifier truncate
949     qualifier tab
950     qualifier sixels
951     qualifier bitmapped
952
```

```

953 define syntax set_process
954     parameter p1,label=option,value(required)
955     parameter p2,label=process,prompt='Process',value(type=$process)
956     qualifier identification,value(required)
957     qualifier priority,      value(required)
958     qualifier resource_wait
959     qualifier swapping
960     qualifier privileges,    value(list,required,type=privileges)
961     qualifier suspend
962     qualifier resume,
963     qualifier name,          value(required)
964     qualifier log
965     qualifier dump
966
967 define syntax set_prompt
968     cliroutine setprompt
969     parameter p1,label=option,value
970     qualifier carriage_control
971
972 define syntax set_def_prot
973     cliroutine setprot
974     prefix clisk stpr
975     parameter p1,label=option,value(required)
976     qualifier default
977
978 define syntax set_protection
979     parameter p1,label=option,value(required,type=set_options)
980     parameter p2,label=file,prompt='File',value(list,required,impcat,type=$infile)
981     qualifier default,      syntax=set_def_prot,nonnegatable
982     qualifier protection,    placement=local,
983     value(list,type=protection,required)
984     qualifier device
985     qualifier owner_uic,     value(type=$uic)
986     qualifier confirm
987     qualifier log
988
989 define syntax set_queue
990     image queman
991     parameter p1,label=option,value(required,type=set_options)
992     parameter p2,prompt='Queue',value(required)
993     qualifier after,         value(required,type=$datetime)
994     qualifier base_priority,value(required)
995     qualifier block_limit,   value(list)
996     qualifier burst
997     qualifier characteristics,value(required,list)
998     qualifier checkpoint,    default
999     qualifier cli,           value(required)
1000    qualifier copies,        value(required)
1001    qualifier cpudefault,     value(required)
1002    qualifier cpumaximum,     value(required)
1003    qualifier cputime,        value(required)
1004    qualifier default,        value(required,list,type=defaults)
1005    qualifier delete
1006    qualifier disable_swapping
1007    qualifier enable_generic
1008    qualifier entry,          value(required)

```

```
1009     qualifier feed
1010     qualifier flag
1011     qualifier form,           value(required)
1012     qualifier header
1013     qualifier hold
1014     qualifier job_,         value(required) ! collision: job_count, job_limit
1015     qualifier keep
1016     qualifier log_file,    value(required)
1017     qualifier lowercase
1018     qualifier name,        value(required)
1019     qualifier note,        value(required)
1020     qualifier notify
1021     qualifier operator,    value(required)
1022     qualifier owner_uic,   value(required,type=$uic)
1023     qualifier pages,       value(list)
1024     qualifier parameters, value(required,list)
1025     qualifier passall
1026     qualifier printer,     value(required)
1027     qualifier priority,    value(required)
1028     qualifier protection, value(required,list,type=protection)
1029     qualifier release
1030     qualifier requeue,     value(required)
1031     qualifier restart
1032     qualifier retain,      value(type=retain)
1033     qualifier schedule,    value(required,list,type=schedule)
1034     qualifier separate,    value(required,list,type=separate)
1035     qualifier setup,       value(required,list)
1036     qualifier space
1037     qualifier trailer
1038     qualifier wsdefault,   value(required)
1039     qualifier wsextent,    value(required)
1040     qualifier wsquota,     value(required)
1041
1042     define syntax set_restart_value
1043     image queman
1044     parameter p1,label=option,value(required,type=set_options)
1045
1046     define syntax set_rms_default
1047     parameter pT,label=option,value(required)
1048     qualifier block_count, value(required)
1049     qualifier buffer_count, value(required)
1050     qualifier disk
1051     qualifier magtape
1052     qualifier unit_record
1053     qualifier hash
1054     qualifier indexed
1055     qualifier relative
1056     qualifier sequential
1057     qualifier system
1058     qualifier space_holder
1059     qualifier prologue,    value(required)
1060     qualifier extend_quantity,value(required)
1061     qualifier network_block_count,value(required)
1062
1063     define syntax set_terminal
1064     parameter pT,label=option,value(required)
```

1065 parameter p2,label=device,prompt='Device',value(type=\$device)  
1066 qualifier application\_keypad  
1067 qualifier broadcast  
1068 qualifier crfill, value  
1069 qualifier dismiss\_parity  
1070 qualifier echo  
1071 qualifier eight\_bit  
1072 qualifier escape  
1073 qualifier hardcopy  
1074 qualifier hold\_screen  
1075 qualifier hostSync  
1076 qualifier interactive  
1077 qualifier la36 nonnegatable  
1078 qualifier lfill, value  
1079 qualifier form  
1080 qualifier frame, value,nonnegatable  
1081 qualifier lowercase  
1082 qualifier numeric\_keypad  
1083 qualifier page, value  
1084 qualifier passall  
1085 qualifier la120 nonnegatable  
1086 qualifier scope  
1087 qualifier scribe  
1088 qualifier speed, value(required,list)  
1089 qualifier tab  
1090 qualifier ttsync  
1091 qualifier typeahead  
1092 qualifier unknown nonnegatable  
1093 qualifier uppercase  
1094 qualifier vt05 nonnegatable  
1095 qualifier vt52 nonnegatable  
1096 qualifier vt55 nonnegatable  
1097 qualifier width, value  
1098 qualifier wrap  
1099 qualifier parity, value  
1100 qualifier readsync  
1101 qualifier permanent nonnegatable  
1102 qualifier vt100 nonnegatable  
1103 qualifier ft1 nonnegatable  
1104 qualifier ft2 nonnegatable  
1105 qualifier ft3 nonnegatable  
1106 qualifier ft4 nonnegatable  
1107 qualifier ft5 nonnegatable  
1108 qualifier ft6 nonnegatable  
1109 qualifier ft7 nonnegatable  
1110 qualifier ft8 nonnegatable  
1111 qualifier fulldup  
1112 qualifier halldup  
1113 qualifier local\_echo  
1114 qualifier autobaud  
1115 qualifier hangup  
1116 qualifier brdcstmbx  
1117 qualifier dma  
1118 qualifier altypeahd  
1119 qualifier ansi\_crt  
1120 qualifier regis

```
1121     qualifier block_mode
1122     qualifier advanced_video
1123     qualifier xon             nonnegatable
1124     qualifier device_type   value(required),nonnegatable
1125     qualifier modem
1126     qualifier inquire       nonnegatable
1127     qualifier dec_crt,      value(list)
1128     qualifier edit
1129     qualifier set_speed
1130     qualifier line_edit
1131     qualifier disconnect
1132     qualifier fallback
1133     qualifier dialup
1134     qualifier insert_editing
1135     qualifier printer_port
1136     qualifier secure_server
1137     qualifier sixel
1138     qualifier soft_characters
1139     qualifier overstrike
1140     qualifier log
1141     qualifier psthru
1142     qualifier syspassword
1143     qualifier protocol      value(required,type=protocol_types),nonnegatable
1144     qualifier x29,          nonnegatable,syntax=set_term_x29
1145
1146 define syntax set_term_x29
1147     image psisetx29
1148     parameter p1,          label=option,value(required)
1149     parameter p2,          label=device,prompt='Device',value(type=$device)
1150     qualifier hold_timer,  value(type=$number,required)
1151                             label=psisetx29_hold_timer
1152     qualifier interrupt,   value(type=psisetx29_int_brk,list,
1153                             required),
1154                             label=psisetx29_interrupt
1155     qualifier break,       value(type=psisetx29_int_brk,list,
1156                             required),
1157                             label=psisetx29_break
1158     qualifier parameters,  label=psisetx29_parameters
1159                             value(type=x29_param_type,list,required)
1160     qualifier network_specific label=psisetx29_network_specific
1161                             value(list,required)
1162     qualifier permanent,   label=psisetx29_permanent,nonnegatable
1163     qualifier log,         label=psisetx29_log
1164
1165 define syntax set_uic
1166     cliroutine setuic
1167     parameter p1,label=option,value(required)
1168     parameter p2,prompt='UIC',value(required,type=$uic)
1169     noqualifiers
1170
1171 define syntax set_verify
1172     cliroutine setverify
1173     parameter p1,label=option,value(required,type=set_options)
1174     disallow (not verify and (verify.procedure or verify.image))
1175
1176 define syntax set_volume
```

```
1177 parameter p1,label=option,value(required)
1178 parameter p2,label=volume,prompt="Volume",value(required,type=$infile)
1179 qualifier accessed, value
1180 qualifier data_check, value(list)
1181 qualifier erase_on_delete
1182 qualifier extension, value
1183 qualifier file_protection, value(type=protection,list,required)
1184 qualifier highwater_marking
1185 qualifier label, value(required)
1186 qualifier log
1187 qualifier mount_verification
1188 qualifier owner_uic, value(type=$uic)
1189 qualifier protection, value(type=protection,list,required)
1190 qualifier rebuild
1191 qualifier retention, value(list,required)
1192 qualifier unload
1193 qualifier user_name, value
1194 qualifier windows, value
1195
1196 define syntax set_working_set
1197 parameter p1,label=option,value(required)
1198 qualifier limit, value(required)
1199 qualifier quota, value(required)
1200 qualifier extent, value(required)
1201 qualifier adjust
1202 qualifier log
1203
1204 define syntax set_day
1205 parameter p1,label=option,value(required)
1206 qualifier primary
1207 qualifier secondary
1208 qualifier default
1209
1210 ! The following definitions comprise the SET COMMAND command, which is used
1211 ! to compile and manipulate command definition (CLD) files and their
1212 ! associated CLI tables.
1213
1214 define type cli_names
1215 keyword dcl,label=cli_dcl,default
1216 keyword mcr,label=cli_mcr
1217
1218 define syntax set_command
1219 image cdu
1220 parameter p1,label=option,value(required)
1221 parameter p2,label=cld_spec,prompt="CLD File(s)",value(list,type=$infile)
1222 qualifier delete,value(required,list)
1223 qualifier object,value(type=$outfile)
1224 qualifier replace,default
1225 qualifier symbols,value(required,type=$outfile)
1226 qualifier cli,default,nonnegatable,value(required,type=cli_names)
1227 qualifier listing,value(type=$outfile)
1228 qualifier log
1229 qualifier output,default,value(type=$outfile)
1230 qualifier tables,default,value(type=$infile)
1231 disallow (any2(delete,object,replace,symbols))
1232 disallow (listing and (delete or symbols))
```



```
1233
1234 define syntax no_parameter
1235     parameter p1,label=option,value(required,type=set_options)
1236     noqualifiers
1237
1238 define type set_options
1239     keyword accounting,      syntax=set_accounting
1240     keyword acl,             syntax=set_acl
1241     keyword audit,           syntax=set_audit
1242     keyword broadcast,       syntax=set_broadcast,
1243     value(list,required,type=brdcst_types)
1244     keyword card_reader,     syntax=set_card_reader
1245     keyword cluster,         syntax=set_cluster
1246     keyword device,          syntax=set_device
1247     keyword default,         syntax=set_default
1248     keyword directory,       syntax=set_directory
1249     keyword file,            syntax=set_file
1250     keyword logins,          syntax=set_logins
1251     keyword magtape,         syntax=set_magtape
1252     keyword on,              syntax=set_on,negatable
1253     keyword password,        syntax=set_password
1254     keyword printer,         syntax=set_printer
1255     keyword process,         syntax=set_process
1256     keyword protection,      syntax=set_protection,
1257     value(list,type=protection)
1258     keyword queue,          syntax=set_queue
1259     keyword terminal,         syntax=set_terminal
1260     keyword uic,             syntax=set_uic
1261     keyword verify,          syntax=set_verify,negatable,
1262     value(list,type=verify_keys)
1263     keyword volume,          syntax=set_volume
1264     keyword working_set,     syntax=set_working_set
1265     keyword rms_default,     syntax=set_rms_default
1266     keyword control_y,       syntax=set_control,negatable,
1267     value(list,type=control_keys)
1268     keyword time,            syntax=no_parameter,value
1269     keyword host,            syntax=set_host
1270     keyword message,         syntax=set_message
1271     keyword command,         syntax=set_command
1272     keyword day,             syntax=set_day
1273     keyword prompt,          syntax=set_prompt,value
1274     keyword key,             syntax=set_key
1275     keyword restart_value,   syntax=set_restart_value,value
1276     keyword output_rate,     syntax=set_output_rate,value(type=$deltatime)
1277
1278 define verb set
1279     parameter p1,label=option,prompt='What',
1280     value(required,type=set_options)
```

\$ SET COMMAND SRC\$:ACC.CLD,ANALYZE.CLD,BACKUP.CLD,CHECKSUM.CLD,CONVERT.CLD,COPY.CLD,CREATE.CLD,DCLINT.CLD,DELETE.CLD,DIFF.CLD,DIRECT

J 14  
14-JAN-1985 10:57  
14-JAN-1985 10:56

VAX/VMS Command Definition Utility (V4-001)  
\_S255SDUA18:[CLD.BUGSRC]SHOW.CLD;1 (1)

Page 1

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Version: 'V04-001'

V04-001 HWS0112 Harold Schultz 01-Nov-1984  
Incorporate SHOW KEY/BTS and SHOW KEY/DHCF.

V03-034 AEW0003 Anne E. Warner 20-Jul-1984  
Change SHOW MSCP to be SHOW DEVICE/SERVED. Add syntax  
show\_served pointed to by qualifier 'served' in  
show\_device. Show\_served has the following qualifiers:  
1. ALL  
2. COUNT  
3. HOST  
4. RESOURCE  
5. OUTPUT

V03-034 MCN0173 Maria del C. Nasr 25-Jun-1984  
Make the /OUTPUT qualifier default to SYS\$OUTPUT.

V03-033 AEW0002 Anne E. Warner 27-Apr-1984  
Add keyword MSCP to show Mass Storage devices. This  
keyword has the qualifiers:  
1. COUNT  
2. HOST  
3. RESOURCE  
4. UNITS  
5. OUTPUT

V03-032 HWS0020 Harold Schultz 10-Apr-1984  
Add qualifier /LOG to SHOW KEY.

V03-031 LMP0217 L. Mark Pilant, 24-Mar-1984 22:21  
Change all references to SHOWACL to SETSHOACL.

V03-030 PCG0010 Peter George 14-Mar-1984  
Change default value of SHOW QUEUE/OUTPUT.  
Make SHOW KEY/DIR and /FULL mutually exclusive.  
Add SHOW SYMBOL/LOG.  
Update SHOW LOGICAL command.

V03-029 HWS0019 Harold Schultz 06-Mar-1984  
Integrate in SHOW TERM/X29

V03-028 PCG0009 Peter George 29-Feb-1984  
Add /OUTPUT qualifier to SHOW QUEUE.

V03-025 PRD0068 Paul R. DeStefano 28-Feb-1984  
Change SHOW CLUSTER/INTERVAL=deltatime to  
/INTERVAL=seconds. Limit values on /REPORT=  
to CLUSTER, LOCAL\_PORTS, and CYCLE.

V03-026 PCG0008 Peter George 27-Feb-1984  
Add /FULL qualifier to SHOW KEY.

V03-025 MCN0152 Maria del C. Nasr 23-Feb-1984  
Disallow /CONTINUOUS and /OUTPUT qualifiers for

K 14  
14-JAN-1985 10:57  
14-JAN-1985 10:56

VAX/VMS Command Definition Utility (V4-001)  
\_S255\$DUA18:[CLD.BUGSRC]SHOW.CLD;1 (1)

Page 2

SHOW PROCESS.

57  
58  
59 V03-024 AEW0001 Anne E. Warner 02-Feb-1984  
60 Add qualifier /FULL to SHOW SYSTEM.  
61  
62 V03-023 LMP0185 L. Mark Pilant, 1-Feb-1984 13:53  
63 Add support for device ACLs.  
64  
65 V03-022 TMK0001 Todd M. Katz 18-Oct-1983  
66 Change which SHOW LOGICAL qualifiers are mutually  
67 exclusive. Also, change the spelling of the qualifier  
68 descendents to descendants.  
69  
70 V03-021 KFH0003 Ken Henderson 22 Sep 1983  
71 Mods to support generized table handling in  
72 SHOW LOGICAL.  
73  
74 V03-020 GAS0175 Gerry Smith 30-Aug-1983  
75 Add SHOW BROADCAST, as well as /OUTPUT where  
76 possible.  
77  
78 V03-019 PCG0007 Peter George 17-Aug-1983  
79 Remove SHOW XTRANSLATION.  
80  
81 V03-018 GAS0154 Gerry Smith 25-Jul-1983  
82 Add SHOW AUDIT.  
83  
84 V03-017 KFH0002 Ken Henderson 21 Jul 1983  
85 Modify SHOW LOGICAL.  
86  
87 V03-016 MAJ0001 Melanie Johnson 23-Jun-1983  
88 Remove mcignore flag from SHOW XTRAN.  
89  
90 V03-015 MLJ0115 Martin L. Jack 23-Jun-1983  
91 Update SHOW QUEUE.  
92  
93 V03-014 KFH0001 Ken Henderson 16 Jun 1983  
94 Modify SHOW LOGICAL.  
95  
96 V03-013 PCG0006 Peter George 27-May-1983  
97 Add SHOW XTRAN.  
98  
99 V03-012 MLJ0012 Martin L. Jack 27-May-1983  
100 Changes for new QUEMAN image.  
101  
102 V03-011 PCG0005 Peter George 13-Apr-1983  
103 Add SHOW KEY/BRIEF/DIRECTORY.  
104  
105 V03-010 PRD0010 Paul DeStefano 28-Mar-1983  
106 Added qualifiers to SHOW CLUSTER command.  
107  
108 V03-009 PCG0004 Peter George 28-Mar-1983  
109 Add SHOW KEY.  
110 Uncomment NOSTATS.  
111  
112 V03-008 PCA1008 Paul C. Anagnostopoulos 25-Mar-1983

L 14  
14-JAN-1985 10:57  
14-JAN-1985 10:56

VAX/VMS Command Definition Utility (V4-001)  
\_S255\$DUA18:[CLD.BUGSRC]SHOW.CLD;1 (1)

Page 3

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113      Make all necessary changes for new CDU.
114
115 V03-007 PCG0003      Peter George      02-Mar-1983
116      Comment out NOSTATS for now.
117
118 V03-006 PCG0002      Peter George      24-Feb-1983
119      Set NOSTAT bit in SHOW STATUS and SHOW SYMBOL.
120
121 V03-005 PRD0007      Paul DeStefano    2-Feb-1983
122      Added SHOW CLUSTER command.
123      Removed all PREFIX statements.
124
125 V03-004 GAS0101      Gerry Smith      13-Jan-1983
126      Complete GAS0099.
127
128 V03-003 GAS0099      Gerry Smith      7-Jan-1983
129      Changes for the new SHOW image.
130
131 V03-002 MLJ0002      Martin L. Jack    01-Jan-1983
132      Changes for new QUEMAN image.
133
134 V03-001 PCG0001      Peter George      19-Oct-1982
135      Copy previous parameter definitions into each
136      DEFINE SYNTAX statement. Change SHOW DEVICE to
137      SHOW DEVICES.
138
139
140 define type acl_objects
141     keyword file
142     keyword device
143     keyword queue
144     keyword event_cluster
145     keyword logical_name_table
146     keyword process
147     keyword global_section
148
149
150 define type acmode
151     keyword user_mode
152     keyword supervisor_mode
153     keyword executive_mode
154     keyword kernel_mode
155
156 define syntax show_acl
157     image setshoacl
158     parameter p1,label=option,value(required)
159     parameter p2,label=input,prompt='Object name',value(required)
160     qualifier object_type, value(required,type=acl_objects)
161
162 define syntax show_broad
163     parameter p1,label=option,value(required)
164     qualifier output, default,value(type=$file,default='SYSS$OUTPUT')
165
166 define syntax show_cpu
167     image mp
168     parameter p1,label=option,value(required)
```

```
169     noqualifiers
170
171 define syntax show daytime
172     clroutine showtime
173     parameter p1,label=option,value(required)
174     noqualifiers
175
176 define syntax show default
177     clroutine showdef
178     parameter p1,label=option,value(required)
179     noqualifiers
180
181 define syntax show_all_keys
182     parameter p1,label=option,value(required)
183
184 define syntax show_all_states
185     parameter p1,label=option,value(required)
186
187 define syntax show_all_dhcf
188     parameter p1,label=option,value(required)
189
190 define syntax show_dhcf_key
191     image dhcfkey
192     parameter p1,label=option,value(required)
193     parameter p2,prompt="Key name",value(required)
194     qualifier table,syntax=show_all_dhcf,nonnegatable,
195         value(required)
196     qualifier all,syntax=show_all_dhcf,nonnegatable
197
198 define syntax show_all_bts
199     parameter p1,label=option,value(required)
200
201 define syntax show_bts_key
202     image btskey
203     parameter p1,label=option,value(required)
204     parameter p2,prompt="Key name",value(required)
205     qualifier table,syntax=show_all_bts,nonnegatable,
206         value(required)
207     qualifier all,syntax=show_all_bts,nonnegatable
208     disallow (all and table)
209
210 define syntax show_key
211     prefix cli$K_shky_
212     clroutine showkey
213     parameter p1,label=option,value(required)
214     parameter p2,prompt="Key name",value(required)
215     qualifier all,syntax=show_all_keys
216     qualifier state,value(required,list)
217     qualifier brief
218     qualifier directory,syntax=show_all_states
219     qualifier full
220     qualifier lng
221     disallow directory and (brief or state or all or full)
222     qualifier bts,syntax=show_bts_key,nonnegatable
223     qualifier dhcf,syntax=show_dhcf_key,nonnegatable
224
```

```
225 define syntax show_logical
226     parameter p1,label=option,value(required)
227     parameter p2,label=logname,prompt="Logical name",value(list,type=$inlog)
228     qualifier output,          default,value(type=$file,default="SYS$OUTPUT")
229     qualifier system
230     qualifier group
231     qualifier process
232     qualifier job
233     qualifier all
234     qualifier table,value(list,required)
235     qualifier descendants
236     qualifier structure
237     qualifier access_mode,value(required,type=acmode)
238     qualifier full
239     disallow structure and
240         (system or group or job or process or table or descendants)
241
242 define syntax show_protection
243     cliroutine showprot
244     parameter p1,label=option,value(required)
245     noqualifiers
246
247 define syntax show_queue
248     image queman
249     parameter p1,label=option,value(required)
250     parameter p2,prompt="Queue",value(default="*")
251     qualifier all
252     qualifier batch
253     qualifier brief
254     qualifier characteristics
255     qualifier device
256     qualifier files
257     qualifier forms
258     qualifier full
259     qualifier output,          default,value(default="SYS$OUTPUT",type=$file)
260
261 define syntax show_all_symbols
262     parameter p1,label=option,value(required)
263
264 define syntax show_symbol
265     cliroutine showsymb1
266     prefix clisk shsy
267     cliflags(nostat)
268     parameter p1,label=option,value(required)
269     parameter p2,prompt="Symbol",value(required,type=$insym)
270     qualifier global,          placement=positional
271     qualifier local,          placement=positional
272     qualifier all,            placement=positional,syntax=show_all_symbols
273     qualifier log
274
275 define syntax show_translation
276     cliroutine showtran
277     parameter p1,label=option,value(required)
278     parameter p2,prompt="Log name",value(required,type=$inlog)
279     qualifier table,value(required)
280
```

```
281 define syntax show_served
282     parameter p1,label=option,value(required)
283     qualifier output,          default,value(type=$file,default='SYS$OUTPUT')
284     qualifier all,
285     qualifier count,
286     qualifier host,
287     qualifier resource,
288     qualifier served,          default,nonnegatable ! 'served' is here
289                                ! because the code for show device and show_served
290                                ! is different. When the show device code is
291                                ! entered the syntax being used is the show_served
292                                ! syntax but all of the qualifiers are different
293                                ! so it won't work. The solution is to add the
294                                ! qualifier 'served' and have the show-device
295                                ! check for it first and to branch to the
296                                ! show_syntax code where this syntax will work.
297                                ! At this point 'served' is always present so it
298                                ! is 'default' and it is 'nonnegatable' to someone
299                                ! can't mess everything up by saying 'noserved'.
300
301 define syntax show_device
302     parameter p1,label=option,value(required)
303     parameter p2,label=device,prompt='Device',value(type=$device)
304     qualifier output,          default,value(type=$file,default='SYS$OUTPUT')
305     qualifier allocated,
306     qualifier brief
307     qualifier full
308     qualifier mounted
309     qualifier files
310     qualifier system
311     qualifier windows
312     qualifier served,          nonnegatable,syntax=show_served
313     disallow served and (allocated or brief or full or mounted or files or
314                          system or windows)
315
316 define syntax show_status
317     cliroutine showstat
318     cliflags(nostatus)
319     parameter p1,label=option,value(required)
320     noqualifiers
321
322 define syntax show_process
323     parameter p1,label=option,value(required)
324     parameter p2,label=process,prompt='Process',value(type=$process)
325     qualifier output,          default,value(type=$file,default='SYS$OUTPUT')
326     qualifier quotas            nonnegatable
327     qualifier accounting        nonnegatable
328     qualifier privileges        nonnegatable
329     qualifier memory            nonnegatable
330     qualifier subprocesses      nonnegatable
331     qualifier identification    value(required),nonnegatable
332     qualifier continuous        nonnegatable
333     qualifier all                nonnegatable
334     disallow continuous and output
335
336 define syntax show_system
```

```
337     parameter p1,label=option,value(required)
338     qualifier output,          default,value(type=$file,default='SYSS$OUTPUT')
339     qualifier process,        default,nonnegatable
340     qualifier batch           nonnegatable
341     qualifier subprocess     nonnegatable
342     qualifier network        nonnegatable
343     qualifier full           nonnegatable
344
345 define syntax show_terminal
346     parameter p1,label=option,value(required)
347     parameter p2,label=device,prompt='Device',value(type=$device)
348     qualifier output,        default,value(type=$file,default='SYSS$OUTPUT')
349     qualifier permanent     nonnegatable
350     qualifier x29,          syntax=show_term_x29
351
352 define      syntax show_term_x29
353     image   psishowx29
354
355 define syntax show_printer
356     parameter p1,label=option,value(required)
357     parameter p2,label=device,prompt='Device',value(required,type=$device)
358     qualifier output,        default,value(type=$file,default='SYSS$OUTPUT')
359
360 define syntax show_magtape
361     parameter p1,label=option,value(required)
362     parameter p2,label=device,prompt='Device',value(required,type=$device)
363     qualifier output,        default,value(type=$file,default='SYSS$OUTPUT')
364
365 define syntax show_quota
366     cliroutine showquota
367     prefix cli$k_shq
368     parameter p1,label=option,value(required)
369     qualifier disk,          default,value(type=$device)
370     qualifier user,          value(required,type=$uic)
371
372 define syntax show_memory
373     parameter p1,label=option,value(required)
374     qualifier output,        default,value(type=$file,default='SYSS$OUTPUT')
375     qualifier physical_memory nonnegatable
376     qualifier slots         nonnegatable
377     qualifier pool          nonnegatable
378     qualifier files         nonnegatable
379     qualifier full          nonnegatable
380     qualifier all           nonnegatable
381
382 define syntax show_error
383     parameter p1,label=option,value(required)
384     qualifier output,        default,value(type=$file,default='SYSS$OUTPUT')
385     qualifier brief         nonnegatable
386     qualifier full          nonnegatable
387
388 define syntax show_user
389     parameter p1,label=option,value(required)
390     parameter p2,label=username,prompt='Username',value
391     qualifier output,        default,value(type=$file,default='SYSS$OUTPUT')
392
```



```
393 define syntax no_parameter
394     parameter p1,label=option,value(required)
395     noqualifiers
396
397 define type cluster_reports
398     keyword cluster
399     keyword local_ports
400     keyword cycle
401
402 define syntax show_cluster
403     image shwclsr
404     parameter p1,label=option,value(required)
405     qualifier beginning     value(required,type=$datetime),nonnegatable
406     qualifier continuous    nonnegatable
407     qualifier ending        value(required,type=$datetime),nonnegatable
408     qualifier interval      value(required,type=$number),nonnegatable
409     qualifier output        default,value(type=$file,default='SYS$OUTPUT')
410     qualifier report        value(required,type=cluster_reports),
411                             nonnegatable
412
413 define type show_options
414     keyword acl,             syntax=show_acl
415     keyword broadcast,      syntax=show_broad
416     keyword cpu,           syntax=show_cpu
417     keyword daytime,       syntax=show_daytime
418     keyword time,          syntax=show_daytime
419     keyword default,        syntax=show_default
420     keyword logical,        syntax=show_logical
421     keyword protection,     syntax=show_protection
422     keyword queue,          syntax=show_queue
423     keyword symbol,         syntax=show_symbol
424     keyword translation,    syntax=show_translation
425     keyword working_set,    syntax=show_broad
426     keyword devices,        syntax=show_device
427     keyword status,         syntax=show_status
428     keyword process,        syntax=show_process
429     keyword system,         syntax=show_system
430     keyword terminal,        syntax=show_terminal
431     keyword printer,        syntax=show_printer
432     keyword network,        syntax=show_broad
433     keyword rms_default,    syntax=show_broad
434     keyword mag_tape,       syntax=show_magtape
435     keyword quota,          syntax=show_quota
436     keyword memory,         syntax=show_memory
437     keyword users,          syntax=show_user
438     keyword error,          syntax=show_error
439     keyword accounting,     syntax=show_broad
440     keyword cluster,        syntax=show_cluster
441     keyword key,            syntax=show_key,cliflags(mcrignore)
442     keyword audit,          syntax=show_broad
443
444 define verb show
445     parameter p1,label=option,prompt='What',
446             value(required,type=show_options)
447
448
```

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14-JAN-1985 10:57  
14-JAN-1985 10:56

VAX/VMS Command Definition Utility (V4-001) Page 9  
\_S255SDUA18:[CLD.BUGSRC]SHOW.CLD;1 (1)

449

\$ SET COMMAND SRCS:ACC.CLD,ANALYZE.CLD,BACKUP.CLD,CHECKSUM.CLD,CONVERT.CLD,COPY.CLD,CREATE.CLD,DCLINT.CLD,DELETE.CLD,DIFF.CLD,DIRECT

s

```
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4  |
5  module sortmerge
6  define type sort_key
7      keyword position,value(required,type=$number)
8      keyword size,value(required,type=$number)
9      keyword number,value(required,type=$number)
10     keyword binary
11     keyword character
12     keyword decimal
13     keyword d_floating
14     keyword f_floating
15     keyword g_floating
16     keyword h_floating
17     keyword packed_decimal
18     keyword zoned
19     keyword signed
20     keyword unsigned
21     keyword leading_sign
22     keyword trailing_sign
23     keyword overpunched_sign
24     keyword separate_sign
25     keyword ascending
26     keyword descending
27     !! keyword dtype,value(required)
28
29 define type sort_type
30     keyword address
31     keyword index
32     keyword record
33     keyword tag
34
35 define type record_format
36     keyword fixed,           value(type=$number)
37     keyword variable,       value(type=$number)
38     keyword controlled,     value(type=$number)
39     keyword size,           value(required,type=$number)
40     keyword block_size,     value(required,type=$number)
41     keyword record_size,    value(type=$number)
42     keyword file_size,      value(type=$number)
43
44 define type collating_type
45     keyword ascii
46     keyword ebcdic
47     keyword multinational
48
49 define syntax sort_using_srt
50     image backtrans
51
52 define verb sort
53     image sortmerge
54     prefix cli$ sort
55     parameter p1,prompt="Input",value(required,list,type=$infile)
56     parameter p2,prompt="Output",value(required,type=$outfile)
```

```
57   qualifier process,      value(required,type=sort_type)
58   qualifier key,         value(required,list,type=sort_key)
59   qualifier zzzz,
60   qualifier work_files,  value(type=$number), default
61   qualifier specification,value(type=$infile)
62   qualifier rsx11,       syntax=sort_using_srt
63   qualifier format,      value(required,list,type=record_format),
64                           placement=local
65   qualifier bucket_size, value(required,type=$number),
66                           placement=positional
67   qualifier allocation,  value(required,type=$number),
68                           placement=positional
69   qualifier block_size,  value(required,type=$number),placement=local,
70                           syntax=sort_using_srt
71   qualifier contiguous,  placement=positional
72   qualifier device,      value(required,type=$device),
73                           syntax=sort_using_srt
74   qualifier indexed_sequential,value(type=$number),placement=positional
75   qualifier relative,    placement=positional
76   qualifier sequential,  placement=positional
77   qualifier overlay,     placement=local
78   qualifier stable,
79   qualifier statistics,
80   qualifier load_fill,   placement=local
81   qualifier collating_sequence value(required,type=collating_type)
82   qualifier duplicates, default !!,value
83   qualifier check_sequence
84
85 define verb merge
86   image sortmerge
87   prefix cli$k_merg
88   parameter p1,prompt='Input',value(required,list,type=$infile)
89   parameter p2,prompt='Output',value(required,type=$outfile)
90   qualifier process,      value(required,type=sort_type)
91   qualifier key,         value(required,list,type=sort_key)
92   qualifier zzzz,
93   qualifier work_files,  value(type=$number)
94   qualifier specification,value(type=$infile)
95   qualifier zzyy,
96   qualifier format,      value(required,list,type=record_format),
97                           placement=local
98   qualifier bucket_size, value(required,type=$number),
99                           placement=positional
100  qualifier allocation,  value(required,type=$number),
101                           placement=positional
102  qualifier block_size,  value(required,type=$number),placement=local
103                           syntax=sort_using_srt
104  qualifier contiguous,  placement=positional
105  qualifier zzzx,
106  qualifier indexed_sequential,value(type=$number),placement=positional
107  qualifier relative,    placement=positional
108  qualifier sequential,  placement=positional
109  qualifier overlay,     placement=local
110  qualifier stable
111  qualifier statistics
112  qualifier load_fill,   placement=local
```

H 15  
14-JAN-1985 10:57  
14-JAN-1985 10:56

VAX/VMS Command Definition Utility (V4-001) Page 3  
\_S255SDUA18:[CLD.BUGSRC]SORT.CLD;1 (1)

113 qualifier collating\_sequence,value(required,type=collating\_type)  
114 qualifier duplicates, default !!,value  
115 qualifier check\_sequence, default

\$ SET COMMAND SRC\$ : ACC.CLD,ANALYZE.CLD,BACKUP.CLD,CHECKSUM.CLD,CONVERT.CLD,COPY.CLD,CREATE.CLD,DCLINT.CLD,DELETE.CLD,DIFF.CLD,DIRECT

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Version: 'V04-000'

V03-007	HWS042 Add SPAWN/TABLE	Harold Schultz	29-Mar-1984
V03-006	MAJ0001 Flag qualifiers that MCR should ignore.	Melanie Johnson	04-Jan-1984
V03-005	PCG0004 Add SPAWN/CLI.	Peter George	27-Jun-1983
V03-004	PCG0003 Add SPAWN/KEYPAD.	Peter George	21-Jun-1983
V03-003	PCG0002 Add SPAWN/PROMPT/CARRIAGE_CONTROL.	Peter George	30-Apr-1983
V03-002	PCA1008 Make all necessary changes for new CDU.	Paul C. Anagnostopoulos	25-Mar-1983
V03-001	PCG0001 Add SPAWN/SYMBOLS/LOGICAL_NAMES/NOTIFY/CONTINUE Remove /TIME_LIMIT.	Peter George	02-Feb-1983

```
define verb spawn  
  cliroutine spawn  
  prefix clisk_spaw  
  parameter p1,value(type=$rest_of_line)  
  qualifier process, value(required)  
  qualifier wait, default  
  qualifier log, default  
  qualifier input, value(required,type=$infile)  
  qualifier output, value(required,type=$outfile)  
  qualifier symbols, default,cliflags(mcrignore)  
  qualifier logical_names,default  
  qualifier notify  
  qualifier carriage_control,cliflags(mcrignore)  
  qualifier prompt, value,cliflags(mcrignore)  
  qualifier keypad, default,cliflags(mcrignore)  
  qualifier cli, value(required,type=$file)  
  qualifier table, value(required,type=$file)  
  
define syntax attach_by_pid  
  noparameters  
  
define verb attach  
  cliroutine attach  
  prefix clisk_atta  
  parameter p1,value(required),prompt='Process'  
  qualifier identification, value(required),syntax=attach_by_pid
```

\$ SET COMMAND SRCS:ACC.CLD,ANALYZE.CLD,BACKUP.CLD,CHECKSUM.CLD,CONVERT.CLD,COPY.CLD,CREATE.CLD,DCLINT.CLD,DELETE.CLD,DIFF.CLD,DIRECT

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14-JAN-1985 10:57  
14-JAN-1985 10:56

VAX/VMS Command Definition Utility (V4-001) Page 1  
\_S255\$DUA18:[CLD.BUGSRC]START.CLD;1 (1)

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Version: 'V04-000'

V03-016 JAK0227 J A Krycka 17-Aug-1984  
Disallow certain printer queue specific qualifiers to be used  
with /BATCH and /GENERIC.

V03-009 JAK0226 J A Krycka 16-Aug-1984  
Change /OWNER to /OWNER\_UIC for consistency with other commands.  
Omit "list" as an attribute for the /OWNER\_UIC qualifier.

V03-008 JAK0220 J A Krycka 12-Jul-1984  
Add [NO]FEED option to the /DEFAULT qualifier.

V03-007 JAK0219 J A Krycka 11-Jul-1984  
Add /BUFFER\_COUNT and /EXTEND\_QUANTITY qualifiers.

V03-006 MLJ0006 Martin L. Jack 29-Jul-1983  
Add /LIBRARY and /SCHEDULE.

V03-005 MLJ0005 Martin L. Jack 27-May-1983  
Changes for new QUEMAN image.

V03-004 MLJ0004 Martin L. Jack 27-Apr-1983  
Changes for new QUEMAN image.

V03-003 MLJ0003 Martin L. Jack 01-Mar-1983  
Changes for new QUEMAN image.

V03-002 PCA1008 Paul C. Anagnostopoulos 10 Feb 1983  
Remove PREFIX clause.

V03-001 MLJ0001 Martin L. Jack 03-Jan-1982  
Changes for new QUEMAN image.

define type print\_bft  
keyword all,default  
keyword one

define type defaults  
keyword burst,negatable,value(type=print\_bft)  
keyword feed,negatable  
keyword flag,negatable,value(type=print\_bft)  
keyword trailer,negatable,value(type=print\_bft)

define type retain  
keyword all,default  
keyword error

define type schedule  
keyword size,negatable

define type separate  
keyword burst,negatable  
keyword flag,negatable  
keyword reset,negatable.value(required,list)

```
57     keyword trailer,negatable
58
59 define type protection
60     keyword system,value
61     keyword group,value
62     keyword owner,value
63     keyword world,value
64
65 define syntax start_cpu
66     image mp
67     noparameters
68     noqualifiers
69
70 define syntax start_queue
71     parameter p1,prompt='Queue',value(required)
72
73 define syntax start_queue_manager
74     parameter p1,prompt='File',value(type=$infile)
75
76 define verb start
77     image queman
78     parameter p1,prompt='What' value(required)
79     qualifier align,          value(list)
80     qualifier backward,      value
81     qualifier base_priority,value(required)
82     qualifier batch
83     qualifier block_limit,   value(required,list)
84     qualifier buffer_count,  value(required)
85     qualifier characteristics,value(required,list)
86     qualifier cpu,nonnegatable,syntax=start_cpu
87     qualifier cpudefault,    value(required)
88     qualifier cpumaximum,    value(required)
89     qualifier default,       value(required,list,type=defaults)
90     qualifier disable_swapping
91     qualifier enable_generic
92     qualifier extend_quantity,value(required)
93     qualifier form,          value(required)
94     qualifier forward,       value
95     qualifier generic,       value(list)
96     qualifier job_limit,     value(required)
97     qualifier library,       value(required)
98     qualifier manager,       syntax=start_queue_manager
99     qualifier new_version
100    qualifier next
101    qualifier on,             value(type=$infile,required)
102    qualifier owner_uic,      value(required,type=$uic)
103    qualifier processor,      value(required)
104    qualifier protection,     value(required,list,type=protection)
105    qualifier queue,          syntax=start_queue
106    qualifier retain,         value(type=retain)
107    qualifier schedule,       value(required,list,type=schedule)
108    qualifier search,         value(required)
109    qualifier separate,       value(required,list,type=separate)
110    qualifier terminal
111    qualifier trailer
112    qualifier top_of_file
```



L 15  
14-JAN-1985 10:57  
14-JAN-1985 10:56

VAX/VMS Command Definition Utility (V4-001) Page 3  
\_S255\$DUA18:[CLD.BUGSRC]START.CLD;1 (1)

113 qualifier wsdefault, value(required)  
114 qualifier wextent value(required)  
115 qualifier wsquota, value(required)  
116 disallow default and (batch or generic)  
117 disallow separate and (batch or generic)  
118 disallow form and (batch or generic)

\$ SET COMMAND SRC\$ : ACC.CLD, ANALYZE.CLD, BACKUP.CLD, CHECKSUM.CLD, CONVERT.CLD, COPY.CLD, CREATE.CLD, DCLINT.CLD, DELETE.CLD, DIFF.CLD, DIRECT

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Version: 'V04-000'

- V03-009 JAK0220 J A Krycka 22-Jul-1984  
Eliminate the default attribute from the FEED qualifier  
because there there is now a queue level default for it.
- V03-008 RRB0021 Rowland R. Bradley 19-Jun-1984  
Add the common qualifier package to both PRINT and  
SUBMIT. The qualifiers include /confirm, /exclude,  
/before, /since, /created, /modified, /expired, /backup,  
and /by\_owner. Disallow /REMOTE with other qualifiers than  
the common qualifier ones.
- V03-007 PCG000c Peter George 14-Feb-1984  
Add SUBMIT/PRINTER default.
- V03-006 PCG0002 Peter George 15-Aug-1983  
Add SUBMIT/SNA qualifiers.
- V03-005 MLJ0005 Martin L. Jack 26-May-1983  
Changes for new SUBMIT image.
- V03-004 MLJ0004 Martin L. Jack 21-Apr-1983  
Changes for new SUBMIT image.
- V03-003 MLJ0003 Martin L. Jack 01-Mar-1983  
Changes for new SUBMIT image.
- V03-002 MLJ0002 Martin L. Jack 30-Dec-1982  
Changes for new SUBMIT image.
- V03-001 PCG0001 Peter George 05-Sep-1982  
Add SUBMIT/SNA.

```
define type print_bft
keyword all,default
keyword one
```

```
define verb print
image submit
parameter p1,prompt='File',value(required,list,impcat,type=$infile)
qualifier after,value(required,type=$datetime)
qualifier backup
qualifier before,value(default=today,type=$datetime)
qualifier burst,value(type=print_bft),placement=positional
qualifier by_owner,value(type=$uic)
qualifier characteristics,value(required,list)
qualifier confirm
qualifier copies,value(required),placement=positional
qualifier created
qualifier delete,placement=positional
qualifier device,value(required)
qualifier exclude,value(required,list)
qualifier expired
qualifier feed,placement=positional
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57     qualifier flag,           value(type=print_bft),placement=positional
58     qualifier form,          value(required)
59     qualifier header,        placement=positional
60     qualifier hold
61     qualifier identify,      default
62     qualifier job_count,     value(required)
63     qualifier lowercase
64     qualifier modified
65     qualifier name,          value(required)
66     qualifier note,          value(required)
67     qualifier notify
68     qualifier operator,      value(required)
69     qualifier pages,         value(required,list),placement=positional
70     qualifier parameters,    value(required,list)
71     qualifier passall,       placement=positional
72     qualifier priority,      value(required)
73     qualifier queue,         value(required)
74     qualifier remote
75     qualifier restart
76     qualifier setup,         value(required,list),placement=positional
77     qualifier since,         value(default=today,type=$datetime)
78     qualifier space,        placement=positional
79     qualifier trailer,       value(type=print_bft),placement=positional
80     qualifier user,          value(required)
81     disallow                 remote and (user or trailer or space or
82                               setup or restart or queue or
83                               priority or passall or parameters or pages or
84                               operator or notify or note or name
85                               or lowercase or job_count or identify or hold
86                               or header or form or flag or feed
87                               or device or delete or after
88                               or copies or characteristics or burst)
89
90     define type translate_keywords
91         keyword ebclic,      default
92
93     define syntax submit sna
94         image snasubmit
95
96     define verb submit
97         parameter p1,prompt='File',value(required,list,impcat,type=$infile)
98         qualifier after,     value(required,type=$datetime)
99         qualifier backup
100        qualifier before,    value(default=today,type=$datetime)
101        qualifier by_owner,   value(type=$uic)
102        qualifier characteristics,value(required,list)
103        qualifier cli,        value(required)
104        qualifier confirm
105        qualifier cputime,    value(required)
106        qualifier created
107        qualifier delete,     placement=positional
108        qualifier exclude,    value(required,list)
109        qualifier expired
110        qualifier hold
111        qualifier identify,   default
112        qualifier keep
```

```
113   qualifier log_file,      value(required)
114   qualifier modified
115   qualifier name,         value(required)
116   qualifier notify
117   qualifier parameters,   value(required,list)
118   qualifier printer,      value(default='SYS$PRINT');
119   qualifier priority,     value(required)
120   qualifier queue,        value(required)
121   qualifier remote
122   qualifier restart
123   qualifier since,        value(default=today,type=$datetime)
124   qualifier sna,          syntax=submit_sna           ! SNA
125   qualifier translate,    default,placement=positional, ! SNA
126   value(type=translate_keywords,default='EBCDIC')
127   qualifier user,         value(required)
128   qualifier wsdefault,    value(required)
129   qualifier wsextent,     value(required)
130   qualifier wsquota,      value(required)
131   qualifier record_size,  nonnegatable,placement=positional, ! SNA
132   value(required)
133   qualifier tab,          placement=positional           ! SNA
134   disallow                remote and (tab or record_size or wsquota or
135   wsdefault or user or translate or sna
136   or restart or queue or priority or printer or
137   parameters or notify or name or
138   log_file or keep or identify or hold
139   or delete or cputime or after or wsextent
140   or cli or characteristics)
```

\$ SET COMMAND SRCS:ACC.CLD,ANALYZE.CLD,BACKUP.CLD,CHECKSUM.CLD,CONVERT.CLD,COPY.CLD,CREATE.CLD,DCLINT.CLD,DELETE.CLD,DIFF.CLD,DIRECT

C 16  
14-JAN-1985 10:57  
14-JAN-1985 10:56

VAX/VMS Command Definition Utility (V4-001) Page 1  
\_S255\$DUA18:[CLD.BUGSRC]SYNCH.CLD;1 (1)

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2 | Version:  'V04-000'
3 |
4 |     V03-002 MLJ0002      Martin L. Jack      30-Dec-1982
5 |         Changes for new QUEMAN image.
6 |
7 | define verb synchronize
8 |     image queman
9 |     parameter p1,prompt='Jobname'
10 |     qualifier entry,      value(required)
11 |     qualifier queue,      value(required)
```

\$ SET COMMAND SRCS:ACC.CLD,ANALYZE.CLD,BACKUP.CLD,CHECKSUM.CLD,CONVERT.CLD,COPY.CLD,CREATE.CLD,DCLINT.CLD,DELETE.CLD,DIFF.CLD,DIRECT

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Version: 'V04-000'

V03-004 MCN0173 Maria del C. Nasr 09-Jul-1984  
Let /OUTPUT qualifier default to SYSS\$OUTPUT.

V03-003 SHZ0003 Stephen H. Zalewski 16-Feb-1984  
Disallow /OUTPUT and /PAGE.

V03-002 SHZ0002 Stephen H. Zalewski 12-Mar-1983  
Changed /BYOWNER qualifier to /BY\_OWNER.

V03-001 SHZ0001 Stephen H. Zalewski 10-mar-1983  
Add common qualifer package to TYPE. Modified TYPE to use  
new CLD.

define verb type

image type

parameter p1,prompt='File',value(required,list,impcat,type=\$infile), label=input

qualifier backup

qualifier before, value(default=today,type=\$datetime)

qualifier confirm

qualifier created

qualifier exclude, value(required,list)

qualifier expired

qualifier modified

qualifier on, value(default=today,type=\$datetime) ! not yet implemented

qualifier output, default,value(type=\$file,default='SYSS\$OUTPUT')

qualifier page,

qualifier since, value(default=today,type=\$datetime)

qualifier by\_owner, value(type=\$uic)

disallow output and page

\$ SET COMMAND SRC\$:ACC.CLD,ANALYZE.CLD,BACKUP.CLD,CHECKSUM.CLD,CONVERT.CLD,COPY.CLD,CREATE.CLD,DCLINT.CLD,DELETE.CLD,DIFF.CLD,DIRECT

E 16  
14-JAN-1985 10:57  
14-JAN-1985 10:56

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Version: 'V04-000'

Edit History

V03-001 AEW0001 Anne E. Warner 09-Nov-1983  
PREFIX clause removed.

define verb unloc  
image unlock  
parameter p1, prompt='File',value(required,list,impcat,type=\$infile)  
qualifier confirm  
qualifier log

\$ SET COMMAND SRC&:ACC.CLD,ANALYZE.CLD,BACKUP.CLD,CHECKSUM.CLD,CONVERT.CLD,COPY.CLD,CREATE.CLD,DCLINT.CLD,DELETE.CLD,DIFF.CLD,DIRECT

0439

AH-EF71A-SE

VAX/VMS V4.1 SRC LST MCRF UPD

BADBLK

BADBLOCK  
MAP

DELETE  
CLD

DCLTABLE1  
LIS

DCLTABLE2  
LIS

DCLINT  
CLD

SHOW  
CLD

SCANFILE  
LIS

DRIVER

TSDRIVER  
MAP

CLD

DCLTABLES  
MAP