

```
CCCCCCCCCCCCC LLL DDDDDDDDDDDDD
CCCCCCCCCCCCC LLL DDDDDDDDDDDDD
CCCCCCCCCCCCC LLL DDDDDDDDDDDDD
CCC           LLL DDD           DDD
CCC           LLL DDD           DDD
CCC           LLL DDD           DDD
CCC           LLL DDD           DDD
CCC           LLL DDD           DDD
CCC           LLL DDD           DDD
CCC           LLL DDD           DDD
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CCC           LLL DDD           DDD
CCC           LLL DDD           DDD
CCC           LLL DDD           DDD
CCCCCCCCCCCCC LLLLLLLLLLLLLLLL DDDDDDDDDDDDD
CCCCCCCCCCCCC LLLLLLLLLLLLLLLL DDDDDDDDDDDDD
CCCCCCCCCCCCC LLLLLLLLLLLLLLLL DDDDDDDDDDDDD
```

DCLIN

defir

defir

defir

defir

defir

defir

```

DDDDDDDD    CCCCCCCC    LL    IIIIII    NN    NN    TTTTTTTTTT
DDDDDDDD    CCCCCCCC    LL    IIIIII    NN    NN    TTTTTTTTTT
DD    DD    CC    II    NN    NN    TT
DD    DD    CC    II    NN    NN    TT
DD    DD    CC    II    NNNN    NN    TT
DD    DD    CC    II    NNNN    NN    TT
DD    DD    CC    II    NN    NN    TT
DD    DD    CC    II    NN    NN    TT
DD    DD    CC    II    NN    NN    TT
DD    DD    CC    II    NN    NN    TT
DD    DD    CC    II    NN    NN    TT
DD    DD    CC    II    NN    NN    TT
DD    DD    CC    II    NN    NN    TT
DD    DD    CC    II    NN    NN    TT
DD    DD    CC    II    NN    NN    TT
DD    DD    CC    II    NN    NN    TT
DDDDDDDD    CCCCCCCC    LLLLLLLLLL    IIIIII    NN    NN    TT
DDDDDDDD    CCCCCCCC    LLLLLLLLLL    IIIIII    NN    NN    TT

```

```

          CCCCCCCC    LL    DDDDDDDD
          CCCCCCCC    LL    DDDDDDDD
CC    LL    DD    DD
CC    LL    DD    DD
CC    LL    DD    DD
CC    LL    DD    DD
CC    LL    DD    DD
CC    LL    DD    DD
CC    LL    DD    DD
CC    LL    DD    DD
CC    LL    DD    DD
          CCCCCCCC    LLLLLLLLLL    DDDDDDDD
          CCCCCCCC    LLLLLLLLLL    DDDDDDDD

```

DEL
def
!*
def

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 /LOG to ALLOCATE, ASSIGN, DEFINE.		

V03-015	MLJ0015	Martin L. Jack	27-Apr-1983
	Changes to STOP/QUEUE for new QUEMAN image.		
V03-014	PRB0175	Paul Beck	27-APR-1983 15:50:39
	Add TMPJNL, PRMJNL privileges.		
V03-013	PCG0006	Peter George	10-Apr-1983
	Modify RECALL, ALLOCATE. Create RUN.CLD.		
V03-012	PCG0005	Peter George	28-Mar-1983
	Add DEFINE/KEY, RECALL.		
V03-011	PCA1008	Paul C. Anagnostopoulos	25-Mar-1983
	Make all necessary changes for new CDU.		
V03-010	WMC0010	Wayne Cardoza	07-Mar-1983
	New RUN/CHECK qualifier		
V03-009	PCA1008	Paul C. Anagnostopoulos	4-Mar-1983
	Put back the PREFIX clause for the RUN verb.		
V03-008	MLJ0008	Martin L. Jack	01-Mar-1983
	Changes for new QUEMAN image.		
V03-007	PCA1008	Paul C. Anagnostopoulos	25-Feb-1983
	Clean up various things.		
V03-006	PCG0004	Peter George	24-Feb-1983
	Specify NOSTAT for appropriate verbs.		
V03-005	PCG0003	Peter George	05-Jan-1983
	Add READ/MATCH		
V03-004	PCG0002	Peter George	15-Dec-1982
	Remove HELP		
V03-003	PCG0001	Peter George	20-Aug-1982
	Add CANCEL		
V03-002	WMC0001	Wayne Cardoza	11-Aug-1982
	Add RUN/CHECKPOINT, RUN/RESTART		
V03-001	DWT0053	David Thiel	15-Jul-1982
	Allow negated privileges Add commands previously defined in DATABASE.MAR		

```

define verb allocate
  cliroutine allocate
  prefix clisk_allo
  parameter p1,prompt="Device",value(required,list,type=$device)
  parameter p2,prompt="Log name",value(type=$outlog)
  qualifier generic
  qualifier log

define syntax merge_queue

```


image queman

```
define type tran_attr
  keyword concealed
  keyword terminal
```

```
define type name_attr
  keyword confine
  keyword no_alias
```

```
define verb assign
  cliroutine assign
  parameter p1,prompt="Device",value(required,type=$infile,list)
  parameter p2,prompt="Log name",value(required,type=$outlog)
  qualifier system           ! Must be #1.
  qualifier group           ! Must be #2.
  qualifier job             ! Must be #3.
  qualifier process        ! Must be #4.
  qualifier user_mode      ! Must be #5.
  qualifier supervisor_mode ! Must be #6.
  qualifier executive_mode ! Must be #7.
  qualifier table,value(required) ! Must be #8.
  qualifier log            ! Must be #9.
  qualifier name_attributes, ! Must be #10.
    value(type=name_attr,list)
  qualifier translation_attributes, ! Must be #11.
    placement=positional,
    value(type=tran_attr,list)
  qualifier queue,syntax=merge_queue
  qualifier merge,syntax=merge_queue
```

```
define verb cancel
  cliroutine cancel
  parameter p1,label=p1,prompt="File",value(type=$process)
  qualifier identification,value(required)
```

```
define verb close
  prefix cli$K_clos_
  cliroutine close
  parameter p1,prompt="Log name",value(required,type=$inlog)
  qualifier end_of_file,value(required) ! /EOF and /ERROR must be
  qualifier error,value(required) ! first for all file commands.
  qualifier log
```

```
define verb connect
  prefix cli$K_conn
  cliroutine connect
  parameter p1,prompt="Terminal name",value(required,type=$device)
  qualifier continue
  qualifier logout
  disallow (continue and logout)
```

```
define verb continue
  synonym c
  cliroutine continue
  cliflags(abbreviate,nostatus)
```

```

define syntax deallocate_all_devices
  noparameters

define verb deallocate
  cliroutine deallocate
  parameter p1,prompt="Device",value(required,type=$device)
  qualifier all,syntax=deallocate_all_devices

define syntax deassign_all_names
  noparameters

define syntax deassign_queue
  image queman

define verb deassign
  cliroutine deassign
  parameter p1,prompt="Log name",value(required,type=$inlog)
  qualifier system           : Must be #1.
  qualifier group           : Must be #2.
  qualifier job             : Must be #3.
  qualifier process        : Must be #4.
  qualifier user_mode       : Must be #5.
  qualifier supervisor_mode : Must be #6.
  qualifier executive_mode  : Must be #7.
  qualifier table,value(required) : Must be #8.
  qualifier all,syntax=deassign_all_names : Must be #9.
  qualifier queue,syntax=deassign_queue

define verb debug
  cliroutine debug

define verb deck
  cliroutine deck
  cliflags(nostatus)
  qualifier dollars, value

define syntax define_characteristic
  image queman
  parameter p1,prompt="Char name",value(required)
  parameter p2,prompt="Char number",value(required)

define type form_margin
  keyword bottom, value(required)
  keyword left, value(required)
  keyword right, value(required)
  keyword top, value(required)

define syntax define_form
  image queman
  parameter p1,prompt="Form name",value(required)
  parameter p2,prompt="Form number",value(required)
  qualifier characteristic
  qualifier description, nonnegatable,value(required)
  qualifier length, nonnegatable,value(required)
  qualifier margin, nonnegatable,value(required,list,type=form_margin)

```



```

qualifier page_setup, value(required,list)
qualifier setup, value(required,list)
qualifier sheet_feed
qualifier stock, nonnegatable,value(required)
qualifier truncate
qualifier width, nonnegatable,value(required)
qualifier wrap

```

```

define syntax define_dhcf_key
image dhcfkey
parameter p1,prompt='Key name',value(required)
parameter p2,prompt='Equivalence name',value(required)
qualifier log, default
qualifier permanent
qualifier table, nonnegatable, value(required),
syntax=define_dhcf_table
disallow permanent

```

```

define syntax define_dhcf_table
noparameters

```

```

define syntax define_bts_key
image btskey
parameter p1,prompt='Key name',value(required)
parameter p2,prompt='Equivalence name',value(required)
qualifier log, default
qualifier permanent
qualifier table, nonnegatable, value(required),
syntax=define_bts_table
disallow permanent and (not table)

```

```

define syntax define_bts_table
noparameters

```

```

define syntax define_key
prefix cli$kl_defk_
cliroutine defkey_
parameter p1,prompt='Key name',value(required)
parameter p2,prompt='Equivalence name',value(required)
qualifier echo
qualifier terminate
qualifier lock_state
qualifier if_state,value(required,list)
qualifier set_state,value(required)
qualifier log
qualifier erase
disallow (not lock_state and terminate and set_state)
disallow (lock_state and not set_state)
qualifier dhcf,syntax=define_dhcf_key
qualifier bts,syntax=define_bts_key

```

```

define verb define
cliroutine define
prefix cli$kl_defi
parameter p1,prompt='Log name',value(required,type=$outlog)

```

```

parameter p2,prompt="Equ name",value(required,type=$infile,list)
qualifier system : Must be #1.
qualifier group : Must be #2.
qualifier job : Must be #3.
qualifier process : Must be #4.
qualifier user_mode : Must be #5.
qualifier supervisor_mode : Must be #6.
qualifier executive_mode : Must be #7.
qualifier table,value(required) : Must be #8.
qualifier log : Must be #9.
qualifier name_attributes, : Must be #10.
value(type=name_attr,list)
qualifier translation_attributes, : Must be #11.
placement=positional,
value(type=tran_attr,list)
qualifier key,syntax=define_key
qualifier characteristic,syntax=define_characteristic
qualifier form,syntax=define_form

```

```

! DEPOSIT uses the same qualifiers as EXAMINE, and they must appear in the
! same order.

```

```

define verb deposit
  cliroutine deposit
  cliflags(immediate,nostatus)
  qualifier ascii,nonnegatable
  qualifier byte,nonnegatable
  qualifier decimal,nonnegatable
  qualifier hexadecimal,nonnegatable
  qualifier long,nonnegatable
  qualifier octal,nonnegatable
  qualifier word,nonnegatable

define verb disconnect
  cliroutine disconnect
  qualifier continue

define verb dsm
  image dsm
  cliflags(foreign)

define verb eod
  cliroutine eod
  cliflags(immediate,nostatus)

define verb eoj
  cliroutine eoj

define verb examine
  cliroutine examine
  prefix clisk_exam
  cliflags(immediate,nostatus)
  qualifier ascii,nonnegatable
  qualifier byte,nonnegatable
  qualifier decimal,nonnegatable
  qualifier hexadecimal,nonnegatable

```



```
    qualifier long,nonnegatable
    qualifier octal,nonnegatable
    qualifier word,nonnegatable

define verb exit
    cliroutine exit
    cliflags(immediate)

define verb goto
    cliroutine goto
    cliflags(nostatus)
    parameter p1,prompt="Label",value(required)

define verb if
    cliroutine if
    cliflags(immediate,nostatus)

define verb inquire
    cliroutine inquire
    prefix cli$K_inq_
    cliflags(immediate)
    qualifier          global,nonnegatable
    qualifier          local,nonnegatable
    qualifier          punctuation

define verb logout
    cliroutine logout
    qualifier brief
    qualifier full
    qualifier hangup

define verb mcr
    cliroutine mcr
    cliflags(foreign)

define verb on
    cliroutine on
    cliflags(immediate)

define type share_options
    keyword read
    keyword write

define verb open
    cliroutine open
    prefix cli$K_open_
    parameter p1,prompt="Log name",value(required,type=$outlog)
    parameter p2,prompt="File",value(required,type=$infile)
    qualifier end_of_file,value(required) ! Make /EOF=1, /ERROR=2 for
    qualifier error,value(required) ! all file commands
    qualifier read
    qualifier write
    qualifier share,value(type=share_options)
    qualifier append
    disallow (write and append)
```

```
define type match_keys
  keyword eq
  keyword ge
  keyword gt

define verb read
  cliroutine read
  prefix cli$k_read
  parameter p1,prompt="Log name",value(required,type=$inlog)
  parameter p2,prompt="Symbol",value(required,type=$outfile)
  ! $outfile on p2 needed to preserve double quotes
  qualifier end_of_file, value(required) ! Make /EOF=1, /ERROR=2 for
  qualifier error, value(required) ! all file commands
  qualifier key, value(required,list)
  qualifier index, value(required)
  qualifier delete
  qualifier lock, default
  qualifier prompt, value(required)
  qualifier match, value(required,type=match_keys)
  qualifier time_out, value(required,type=$number)

define syntax recall_all_commands
  cliroutine recall
  noparameters

define verb recall
  cliroutine recall
  parameter p1,value(type=$rest_of_line)
  qualifier all,syntax=recall_all_commands

define syntax stop_cpu
  image mp
  noparameters

define syntax stop_queue
  image quemān
  parameter p1,prompt="Queue",value(required)

define syntax stop_queue_manager
  image quemān
  noparameters

define syntax write_symbol_out
  parameter p1,prompt="Log name",value(required,type=$inlog)
  parameter p2,prompt="Symbol",value(required,list,type=$quoted_string)

define verb stop
  cliroutine stop
  cliflags(nostatus)
  parameter p1,prompt="Process",value(type=$process)
  qualifier manager, nonnegatable,syntax=stop_queue_manager
  qualifier abort, nonnegatable,syntax=stop_queue
  qualifier next, nonnegatable,syntax=stop_queue
  qualifier identification,nonnegatable,value(required)
  qualifier requeue, nonnegatable,value,syntax=stop_queue
```



```
qualifier entry,      nonnegatable,value(required),syntax=stop_queue
qualifier priority,  nonnegatable,value(required),syntax=stcp_queue
qualifier cpu,       nonnegatable,syntax=stop_cpu
qualifier queue,     nonnegatable,syntax=stop_queue
qualifier hold,      syntax=stop_queue
qualifier reset,     nonnegatable,syntax=stop_queue
```

```
define verb wait
  cliroutine wait
  cliflags(immediate,nostatus)
```

```
define verb write
  cliroutine write
  prefix cli$k_writ_
  parameter p1,prompt="Log name",value(required,type=$inlog)
  parameter p2,prompt="Expression",value(required,list,type=$expression)
  qualifier end_of_file, value(required) ! Make /EOF=1, /ERROR=2 for
  qualifier error,      value(required) ! all file commands
  qualifier update
  qualifier symbols,    nonnegatable,syntax=write_symbol_out
```


