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  CCCCCCCCCCCC  LLLLLLLLLLLLLLLL  DDDDDDDDDDD
  CCCCCCCCCCC   LLLLLLLLLLLLLLLL  D.DDDDDDDDD
```

ANALYZE
CLD

Version: 'V04-000'

    V03-022 DGB0066   Donald G. Blair   03-Jul-1984
            Allow negation of all qualifiers for ANALYZE/IMAGE and
            ANALYZE/OBJECT and ANALYZE/RMS_FILE

    V03-021 EAD0147   Elliott A. Drayton   12-Apr-1984
            Change file default for ANALYZE/ERROR_LOG.

    V03-020 SAR0244   Sharon A. Reynolds   4-Apr-1984
            Removed the negatable clause from /sid_selection
            for ANALYZE/ERROR_LOG.

    V03-019 EAD0121   Elliott A. Drayton   24-Mar-1984
            Removed qualifier UNKNOWN.

    V03-018 EAD0106   Elliott A. Drayton   28-Feb-1984
            Added LIST keyword for parameter(list of input file names)

    V03-017 WMC0007   Wayne Cardoza   27-Feb-1984
            Remove checkpoint and journaling related stuff.

    V03-016 JMG0011   Joel M. Gringorten   6-Feb-1984
            Added STATISTICS qualifier for ANALYZE/SUMMARY.

    V03-015 SAR0185   Sharon A. Reynolds   17-Jan-1984
            Added HISTOGRAM keyword for ANALYZE/ERROR/SUMMARY.

    V03-014 SAR0123   Sharon A. Reynolds   23-Aug-1983
            Added a file spec value for the /binary qualifier
            for ANALYZE/ERROR_LOG.

    V03-013 LJA0084   Laurie J. Anderson   25-Jul-1983
            Fix CLD defaults for ANALYZE/AUDIT

    V03-012 WMC0006   Wayne Cardoza   24-Jul-1983
            Add ANALYZE/PROC/OUTPUT.

    V03-011 LJA0076   Laurie J. Anderson   21-Jun-1983
            Add support for new ANALYZE/AUDIT utility

    V03-010 SAR0019   Sharon A. Reynolds,   27-Apr-1983
            Added keyword support for /summary. Removed the negatable
            clause for /brief, /register_dump, and /unknown qualifiers.
            (analyze/error).

    V03-009 WMC0005   Wayne Cardoza   20-Apr-1983
            Add ANALYZE/PROCESS_DUMP
            THIS AND THE TWO PRECEDING UPDATES WERE ACCIDENTALLY DELETED
            SOMEHOW.

    V03-008 PCA1012   Paul C. Anagnostopoulos 14-Apr-1983
            Allow /NOOUTPUT on the ANALYZE/RMS command.

    V03-007 WMC0004   Wayne Cardoza   04-Apr-1983

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            More /CHECKPOINT qualifiers.

        V03-006 PCA0070          Paul C. Anagnostopoulos 31-Mar-1983
                Remove the PROMPT clauses from the qualifiers added in
                EAD0070.

        V03-005 EAD0070          Elliott A. Drayton      29-Mar-1983
                Add support for ana/error.

        V03-004 WMC0003          Wayne Cardoza  25-Mar-1983
                Add /OUTPUT for checkpoint

        V03-003 WMC0002          Wayne Cardoza  10-Feb-1983
                New checkpoint qualifiers

        V03-002 MTR0001          Mike Rhodes    3-Jan-1983
                Add list to PATTERN keyword (ANALYZE/MEDIA/EXERCISE).

        V03-001 WMC0001          Wayne Cardoza  28-Dec-1982
                Add /CHECKPOINT qualifiers

define syntax analyze_crash_dump
        image sda
        parameter p1,label=dump_file,prompt="Dump File",value(required,type=$infile)
        qualifier CRASH_DUMP,default
        qualifier SYSTEM
        qualifier SYMBOLS,value(required,type=$infile)

define syntax analyze_disk_structure
        image verify
        parameter p1,label=device,prompt="Device",value(required,type=$device)
        qualifier CONFIRM
        qualifier DISK_STRUCTURE,default
        qualifier LIST,value(type=$outfile)
        qualifier READ_CHECK
        qualifier REPAIR
        qualifier USAGE,value(type=$outfile)

define type SUMMARY_TYPE_KEYWORDS
        keyword DEVICE
        keyword ENTRY
        keyword HISTOGRAM
        keyword MEMORY
        keyword VOLUME

define type ENTRY_KEYWORDS
        keyword END,            value(type=$number)
        keyword START,          value(type=$number)

define syntax analyze_error_log
        image SYS$SYSTEM:ERF.EXE
        parameter P1, label=file_specs,
                value(list,type=$infile,default="SYS$ERRORLOG:ERRLOG.SYS")
        qualifier BEFORE,               value(type=$datetime),nonnegatable
        qualifier BINARY,               value(type=$outfile)
        qualifier BRIEF,                nonnegatable
```

```
        qualifier ENTRY,                value(required,
                                          type=ENTRY_KEYWORDS,list),
                                          nonnegatable
        qualifier EXCLUDE,              value(required,list),
                                          nonnegatable
        qualifier FULL,                 negatable
        qualifier INCLUDE,              value(required,list),
                                          nonnegatable
        qualifier LOG,                  negatable
        qualifier OUTPUT,               default,value(default=SYS$OUTPUT),
                                          nonnegatable
        qualifier PAGE,                 negatable
        qualifier REJECTED,             value(type=$outfile)
        qualifier REGISTER_DUMP,        nonnegatable
        qualifier SID_REGISTER,         value(required,
                                          type=$number),nonnegatable
        qualifier SINCE,                value(default=today,type=$datetime),
                                          nonnegatable
        qualifier STATISTICS,           nonnegatable
        qualifier SUMMARY,              value(type=SUMMARY_TYPE_KEYWORDS,list),
                                          nonnegatable

define syntax analyze_image
        image analyzobj
        parameter p1,label=file_specs,prompt="File(s)",value(required,list,type=$infile)
        qualifier FIXUP_SECTION,placement=positional
        qualifier GST,placement=positional
        qualifier HEADER,placement=positional
        qualifier OUTPUT,default,value(default="SYS$OUTPUT",type=$outfile)
        qualifier IMAGE,default
        qualifier INTERACTIVE
        qualifier PATCH_TEXT,placement=positional

define syntax analyze_rms_file
        image analyzrms
        parameter p1,label=file_specs,prompt="File(s)",value(required,list,type=$infile)
        qualifier CHECK
        qualifier FDL
        qualifier INTERACTIVE
        qualifier STATISTICS
        qualifier SUMMARY
        qualifier OUTPUT,default,value(type=$outfile)

define syntax analyze_system
        image sda
        noparameters


! Keyword definitions for ANALYZE/MEDIA

define type exer_keywords
        keyword FULL
        keyword KEEP, negatable
        keyword PATTERN, value (list)

define type show_keywords
```

```
        keyword BEFORE, negatable
        keyword AFTER, negatable

define syntax analyze_media
        image analyzbad
        parameter p1, label=device, prompt="Device", value (required, type=$device)

        qualifier BAD_BLOCKS, nonnegatable, value (list)
        qualifier EXERCISE, value (list, type=exer_keywords)
        qualifier LOG
        qualifier OUTPUT, value (default="SYS$OUTPUT", type=$outfile)
        qualifier RETRY
        qualifier SHOW, nonnegatable, value (list, type=show_keywords)

!**JNL** define syntax analyze_checkpoint
!**JNL**         image   chkanal
!**JNL**         parameter p1,prompt="File",value(required,type=$infile),label=chkpnt
!**JNL**         qualifier full
!**JNL**         qualifier quota
!**JNL**         qualifier interactive
!**JNL**         qualifier database
!**JNL**         qualifier output,value(default="SYS$OUTPUT", type=$outfile)
!**JNL**         qualifier record,value(required)
!**JNL**         qualifier create,value(type=$outfile)

define syntax analyze_process_dump
        image analimdmp
        parameter p1,prompt="File",value(required,type=$infile)
        qualifier image,          value(type=$outfile)
        qualifier noimage
        qualifier interactive
        qualifier full
        qualifier miscellaneous
        qualifier relocation
        qualifier output,value(default="SYS$OUTPUT", type=$outfile)
!
! Keyword definitions for ANALYZE/AUDIT
!
!**JNL** define type FILE_ACCESS_KEYWORDS
!**JNL**         keyword BYPASS,          value( list, type=ACCESS_TYPE_KEYWORDS )
!**JNL**         keyword FAILURE,         value( list, type=ACCESS_TYPE_KEYWORDS )
!**JNL**         keyword GRPPRV,          value( list, type=ACCESS_TYPE_KEYWORDS )
!**JNL**         keyword READALL,         value( list, type=ACCESS_TYPE_KEYWORDS )
!**JNL**         keyword SUCCESS,         value( list, type=ACCESS_TYPE_KEYWORDS )
!**JNL**         keyword SYSPRV,          value( list, type=ACCESS_TYPE_KEYWORDS )
!**JNL**         keyword RECORD_MANAGEMENT, value( list, type=RMS_SERVICES )

!**JNL** define type ACCESS_TYPE_KEYWORDS
!**JNL**         keyword READ
!**JNL**         keyword WRITE
!**JNL**         keyword EXECUTE
!**JNL**         keyword DELETE
!**JNL**         keyword OWNER

!**JNL** define type RMS_SERVICES
!**JNL**         keyword CLOSE
```

```
!**JNL**          keyword CREATE
!**JNL**          keyword DELETE
!**JNL**          keyword EXTEND
!**JNL**          keyword FIND
!**JNL**          keyword GET
!**JNL**          keyword OPEN
!**JNL**          keyword PUT
!**JNL**          keyword READ
!**JNL**          keyword TRUNCATE
!**JNL**          keyword UPDATE
!**JNL**          keyword WRITE

!**JNL** define type LOGIN_KEYWORDS
!**JNL**          keyword BATCH
!**JNL**          keyword DIALUP
!**JNL**          keyword FAILURES
!**JNL**          keyword LOCAL
!**JNL**          keyword NETWORK
!**JNL**          keyword PROCESS

!**JNL** define type LOGOUT_KEYWORDS
!**JNL**          keyword BATCH
!**JNL**          keyword DIALUP
!**JNL**          keyword LOCAL
!**JNL**          keyword NETWORK
!**JNL**          keyword PROCESS

!**JNL** define type JOURNAL_TYPE_KEYWORDS
!**JNL**          keyword AT                    default
!**JNL**          keyword AI
!**JNL**          keyword BI
!**JNL**          keyword RU

!**JNL** define syntax analyze_audit
!**JNL**          image audit
!**JNL**          parameter p1,label=file_spec,value(list,type=$infile)
!**JNL**          qualifier ACL
!**JNL**          qualifier AUTHORIZATION
!**JNL**          qualifier BACKWARD,           nonnegatable
!**JNL**          qualifier BEFORE,             nonnegatable,value(default=TODAY,type=$datetime)
!**JNL**          qualifier FILE_ACCESS,        value(type=FILE_ACCESS_KEYWORDS,list)
!**JNL**          qualifier FORWARD,            nonnegatable,default
!**JNL**          qualifier FULL
!**JNL**          qualifier IDENTIFICATION,     value(list,type=$number,required)
!**JNL**          qualifier JOURNAL,            nonnegatable,value(list,type=$infile)
!**JNL**          qualifier LOGIN,              value(list,type=LOGIN_KEYWORDS)
!**JNL**          qualifier LOGOUT,             value(list,type=LOGOUT_KEYWORDS)
!**JNL**          qualifier MAILBOX_IO,         value(list,type=$device)
!**JNL**          qualifier MOUNT
!**JNL**          qualifier OUTPUT              nonnegatable,value(type=$outfile,default=sys$output:),default
!**JNL**          qualifier SETPRV
!**JNL**          qualifier SINCE,              nonnegatable,value(default=TODAY,type=$datetime)
!**JNL**          qualifier TERMINAL_IO,        value(list,type=$device)
!**JNL**          qualifier TYPE,               value(required,type=JOURNAL_TYPE_KEYWORDS)
!**JNL**          qualifier UIC,                value(list,type=$uic)
```

```
!**JNL** disallow (BACKWARD and FORWARD)
!
! ANALYZE
!
define verb ANALYZE
        image analyzobj
        parameter p1,label=file_specs,prompt="File(s)",value(required,list,type=$infile)

!**JNL**         qualifier AUDIT,nonnegatable,syntax=analyze_audit
        qualifier CRASH_DUMP,nonnegatable,syntax=analyze_crash_dump
        qualifier DISK_STRUCTURE,nonnegatable,syntax=analyze_disk_structure
        qualifier ERROR_LOG,nonnegatable,syntax=analyze_error_log
        qualifier IMAGE,nonnegatable,syntax=analyze_image
        qualifier MEDIA,nonnegatable,syntax=analyze_media
        qualifier OBJECT,default,nonnegatable
        qualifier RMS_FILE,nonnegatable,syntax=analyze_rms_file
        qualifier SYSTEM,nonnegatable,syntax=analyze_system
!**JNL**         qualifier CHECKPOINT,nonnegatable,syntax=analyze_checkpoint
        qualifier PROCESS_DUMP,nonnegatable,syntax=analyze_process_dump

        qualifier DBG,placement=positional
        qualifier EOM,placement=positional
        qualifier GSD,placement=positional
        qualifier INCLUDE,placement=local,value(default="*",list)
        qualifier INTERACTIVE
        qualifier LNK,placement=positional
        qualifier MHD,placement=positional
        qualifier OUTPUT,default,value(default="SYS$OUTPUT",type=$outfile)
        qualifier TBT,placement=positional
        qualifier TIR,placement=positional
```

BACKUP
CLD

DCLTABLES
CLD

DISMOUNT
CLD

ENCRYPT
CLD

REPLY
CLD

CLD

CREATE
CLD

MCRINT
CLD

SET
CLD

DCLTABLES
MAP

DEF
CLD

DMO
CLD

LIBRARIAN
CLD

PASCAL
CLD

RUN
CLD

ACC
CLD

BAD
CLD

DCLINT
CLD

DELETE
CLD

DUMP
CLD

EXCHANGE
CLD

MCRTABLES
CLD

PATCH
CLD

CHECKSUM
CLD

ANALYZE
CLD

EDIT
CLD

FORTRAN
CLD

LINK
CLD

MESSAGE
CLD

PHONE
CLD

CLISYM1
CLD

MCRSET
CLD

RUNOFF
CLD

PSECTS
R32

DIFF
CLD

MONITOR
CLD

RECOVER
CLD

MCRTABLES
MAP

CONVERT
CLD

HELP
CLD

MACRO
CLD

DIRECTORY
CLD

SDL
CLD

JNLUSR
MAR

COPY
CLD

EDT
CLD

INIT
CLD

MOUNT
CLD

RENAME
CLD

MAIL
CLD

SEARCH
CLD