

DDDDDDDDDDDD		IIIIIIIIII	FFFFFFFFFFFFFF
DDDDDDDDDDDD		IIIIIIIIII	FFFFFFFFFFFFFF
DDDDDDDDDDDD		IIIIIIIIII	FFFFFFFFFFFFFF
DDD	DDD	III	FFF
DDD	DDD	III	FFF
DDD	DDD	III	FFF
DDD	DDD	III	FFF
DDD	DDD	III	FFF
DDD	DDD	III	FFF
DDD	DDD	III	FFFFFFFFFFFFFF
DDD	DDD	III	FFFFFFFFFFFFFF
DDD	DDD	III	FFFFFFFFFFFFFF
DDD	DDD	III	FFF
DDD	DDD	III	FFF
DDD	DDD	III	FFF
DDD	DDD	III	FFF
DDD	DDD	III	FFF
DDD	DDD	III	FFF
DDD	DDD	III	FFF
DDDDDDDDDDDD		IIIIIIIIII	FFF
DDDDDDDDDDDD		IIIIIIIIII	FFF
DDDDDDDDDDDD		IIIIIIIIII	FFF



```

DDDDDDDD      IIIIII      FFFFFFFFFF      DDDDDDDD      EEEEEEEEEEE      FFFFFFFFFF
DDDDDDDD      IIIIII      FFFFFFFFFF      DDDDDDDD      EEEEEEEEEEE      FFFFFFFFFF
DD      DD      II      FF      DD      DD      EE      FF
DD      DD      II      FF      DD      DD      EE      FF
DD      DD      II      FF      DD      DD      EE      FF
DD      DD      II      FF      DD      DD      EE      FF
DD      DD      II      FFFFFFFF      DD      DD      EEEEEEEEE      FFFFFFFF
DD      DD      II      FFFFFFFF      DD      DD      EEEEEEEEE      FFFFFFFF
DD      DD      II      FF      DD      DD      EE      FF
DD      DD      II      FF      DD      DD      EE      FF
DD      DD      II      FF      DD      DD      EE      FF
DD      DD      II      FF      DD      DD      EE      FF
DD      DD      II      FF      DD      DD      EE      FF
DDDDDDDD      IIIIII      FF      DDDDDDDD      EEEEEEEEEEE      FF
DDDDDDDD      IIIIII      FF      DDDDDDDD      EEEEEEEEEEE      FF

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MM      MM      DDDDDDDD      LL
MM      MM      DDDDDDDD      LL
MMMM      MMMM      DD      DD      LL
MMMM      MMMM      DD      DD      LL
MM      MM      MM      DD      DD      LL
MM      MM      MM      DD      DD      LL
MM      MM      MM      DD      DD      LL
MM      MM      MM      DD      DD      LL
MM      MM      MM      DD      DD      LL
MM      MM      MM      DD      DD      LL
MM      MM      MM      DD      DD      LL
MM      MM      DDDDDDDD      !LLLLLLLLLL
MM      MM      DDDDDDDD      LLLLLLLLLL

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Differences

Version 'V04-000'

```

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```

FACILITY:      DCL Differences command
ABSTRACT:      The DCL DIFFERENCES command compares the contents of
                two files.
ENVIRONMENT:   VAX native, user mode

```

--

AUTHOR: Peter George, Benn Schreiber CREATION DATE: 1-August-1981

MODIFIED BY:

- V03-004 DWT0009 David Thiel 23-Dec-1981
 - Add DIF\$V_MAXDIF and DIF\$V_OUTPUT.
 - Add DIF\$C_MINLISIZ.
 - Add IGNSV_PRETTY.
- V03-003 PCG0003 Peter George 14-Oct-1981
 - Add DIF\$V_INIT.
- V03-002 PCG0002 Peter George 23-Sep-1981
 - Add HEADCNT field to FDB.
- V03-001 PCG0001 Peter George 08-Sep-1981
 - Add IGNSV_HEADER and DIF\$C_HEADERDEF.

--

```

:
: File descriptor block (FDB)
:

```

\$STRUCT FDB

```

F      CURREC,L      : Record currently working with
F      FIRSTREC,L   : Lowest number record in memory
F      LASTREC,L    : Last record read
F      FIRSTDIF,L   : First record of current difference
F      COMP1REC,L   : Record to start comparison at
F      COMPNREC,L   : Record reached in current comparison
F      EOFREC,L     : Pointer to EOF record
F      LASTRFA,L    : Last record read before EOF
F      NUMREC,L     : Number of records in file
F      FLAGS,W      : File flags
V      <M
      CHANGEBAR     : Change bar output requested
      LINENUM       : Print line numbers
      SEPARATED     : Separated output requested
      MOVE          : Secondary list required
      >
F      CBARCHR,B    : Character to use for change bar
F      ,B           : Spare
F      HEADCNT,L   : Number of header records skipped

F      IF1,W       : Saved IF1 from FAB
F      ,W          : Spare
F      RABPTR,L    : Pointer to RAB
F      NAMPTR,L    : Pointer to NAM block
F      FILDESC,L   : Pointer to String descriptor for file specification
L      SIZE        : Size of an FDB

E

```

```

:
: Record descriptor block (RDB)
:

```

\$STRUCT RDB

```

F      FLINK,L      : Link to next RDB
F      NUMBER,L    : Record number

F      FLAGS,L     :
V      <M
      IGNORED      : Ignore this record in all comparisons
      PERMANENT    : Do not delete this RDB
      EOF          : EOF dummy record
      EDITED       : Record has been edited
      MATCH        : Matches a record in the other file
      MATCHONE     : First match record after a difference
      >

F      RFA,W,3     : RFA of record
F      LENGTH,W    : Length of record

```

```

F      TEXT,T,0      : Start of record text
L      SIZE
E

```

```

: File type descriptor block
: Used to figure out comment characters given file type
:

```

```
$STRUCT FTDB
```

```

F      TYPTR,L      : Pointer to ASCII file type string
F      CDPTR,L      : Pointer to ASCII string of comment delims
F      FLAGS,W      : Flags (each bit, when set, indicates first column only)
L      SIZE
E

```

```

: Ignore character flags in dif$gl_ignore
:

```

```
$STRUCT IGN
```

```

V      <M
      BLNKLN      : Ignore blank lines
      COMMENTS    : Ignore comments
      FORMFEED    : Ignore form feeds
      TRAILBLNK   : Ignore trailing blanks
      SPACING     : Ignore spacing
      HEADER      : Ignore header
      EXACT       : Print source line rather than edited line
      PRETTY      : Expand tabs, etc. in output line
      >
E

```

```

: Command parameter flags and other random definitions
:

```

```
$STRUCT DIF
```

```

V      <M
      ASCII      : Print differences in ASCII (default)
      HEX        :
      OCTAL      :
      COMDEL     : Comment delimiters were specified
      IGNORE     : Characters to ignore were specified
      MERGED     : Print merged list of differences
      PARALLEL   : Print parallel list of differences
      SEPARATED  : Listing contains sequential list
                : of unmatched records
      SLP        : Create SLP output file
      WIDTH     : /LINE WIDTH was specified
      MATCH     : /MATCH was specified
      WINDOW    : /WINDOW was specified
      LINENUM   : /NUMBER was specified
      INIT      : Output listing header
      MAXDIF    : /MAXIMUM DIFFERENCES was specified
      OUTPUT    : /OUTPUT was specified
E

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```

>
C <
  BYTECNT, 65536      : 512 * 128 - No. of bytes to get with each GET_VM
  DEFHEADER, 2       : Default value for /IGNORE=(HEADER=n)
  DEFMATCH, 3        : Default value for /MATCH
  DEFMERGED, 1       : Default value for /MERGED
  DEFPARALLEL, 0     : Default value for /PARALLEL
  DEFWINSIZ, 2147483647 : Default value for /WINDOW ('%X'7FFFFFFF')
  ENTRIESIZE, 4      : Number of bytes in each hex/octal entry
  LINENUM, 6         : Size of line number field
  MAXCDLM, 32        : Maximum number of comment delimiters
  MAXFAOSIZ, 40      : Maximum fao string size
  DEFLISIZ, 80       : Default listing width
  MAXLISIZ, 132      : Maximum listing width
  MINLISIZ, 12       : Minimum listing width
>
E

```

```

:
: Format of a RFA
:

```

```

$STRUCT RFA

```

```

F      VBN,L        : Virtual block number
F      OFFSET,W     : Offset within block
L      SIZE         : Size of the RFA

```

```

E

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0102 AH-BT13A-SE
VAX/VMS V4.0

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A grid of 10 columns and 10 rows of small, illegible text screens. Several larger, semi-transparent labels are overlaid on the grid:

- DIFDEF MDL (row 2, column 6)
- DIF (row 3, column 5)
- DIF MAP (row 4, column 5)
- XDSTRING LIS (row 5, column 4)
- DIFPRE REQ (row 6, column 6)
- DIFGETCMD LIS (row 7, column 6)
- DIFHEXOCT LIS (row 8, column 9)
- DATA LIS (row 9, column 6)
- XDELTA LIS (row 10, column 1)