

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



DDDDDDDD		IIIIII		FFFFFFFF		DDDDDDDD		EEEEEEEE		FFFFFFFF		
DDDDDDDD		IIIIII		FFFFFFFF		DDDDDDDD		EEEEEEEE		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		FFFFFFFF		DD	DD	EEEEEEEE		FFFFFFFF		
DD	DD	II		FFFFFFFF		DD	DD	EEEEEEEE		FFFFFFFF		
DD	DD	II		FF		DD	DD	EE		FF		
DD	DD	II		FF		DD	DD	EE		FF		
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DD	DD	II		FF		DD	DD	EE		FF		
DDDDDDDD		IIIIII		FF		DDDDDDDD		EEEEEEEE		FFFFFFFF	
DDDDDDDD		IIIIII		FF		DDDDDDDD		EEEEEEEE		FFFFFFFF	

MM	MM	DDDDDDDD		LL	
MM	MM	DDDDDDDD		LL	
MMMM	MMMM	DD	DD	LL	
MMMM	MMMM	DD	DD	LL	
MM	MM	DD	DD	LL	
MM	MM	DD	DD	LL	
MM	MM	DD	DD	LL	
MM	MM	DD	DD	LL	
MM	MM	DD	DD	LL	
MM	MM	DD	DD	LL	
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 DIFSV_MAXDIF and DIFSV_OUTPUT. | |
| | | Add DIFSC_MINLISIZ. | |
| | | Add IGNSV_PRETTY. | |
| V03-003 | PCG0003 | Peter George | 14-Oct-1981 |
| | | Add DIFSV_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 DIFSC_HEADERDEF. | |

```

:
: File descriptor block (FDB)
:

```

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$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   IFI,W        : Saved IFI 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

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```

:
: 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

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: Used to figure out comment characters given file type

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```

$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

```

```

>
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')
ENTRYSIZE, 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
>

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Format of a RFA

STRUCT RFA

```

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

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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
- DIF
- DIF MAP
- XDSTRING LIS
- DIFPRE REQ
- DIFGETCMD LIS
- DIFHEXOCT LIS
- DATA LIS
- XDELTA LIS