Freeware Open Source Software for OpenVMS

The Norton Commander Style Video Terminals file manager

Release: 2.3-A Operating system: HP OpenVMS Architectures: VAX, Alpha, Itanium (IA64)

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1. Introduction

Hi and congratulations with usage of VTfm – the Norton Commander Style Video Terminals file manager! It was developed by me *especially for DEC VT-series terminals and OpenVMS operating system for DEC VAX, Alpha and Intel Itanium (IA64) architectures.* Also you can use VTfm with *terminal emulators*, which can emulate DEC VT-series terminals (PowerTerm, for example).

VTfm is *a freeware open source* program, which developed on DEC C V6.0 language and uses the following OpenVMS facilities:

- LIB (RTL Library),
- **RMS** (Record Management Services),
- SMG (RTL Screen Management),
- **STR** (*RTL String Manipulation*),
- SYS (System Services),
- **TPU** (Text Processing Utility).

1.1 Current features

- ✓ Working technique is similar to well known Norton Commander program, i.e. navigate through disk directory content with use of <Up/Down> arrow or <Next/Prev> keys and enter into subdirectory and back with use of <Return> (<Enter>) key.
- ✓ Select and UnSelect files by wildcard mask with use of <Sel/Rem> keys or manually with use of <Ins> key.
- ✓ *Files filtering* in directory panels by wildcard mask with use of *<Find>* key.
- ✓ One touch View and Edit file content with use of integrated TPU editor.
- ✓ Copy, Rename, Move and Delete disk directory trees.
- ✓ Works with **OpenVMS Extended File Specifications on ODS-5** volumes.
- ✓ Supports DEC VT-terminal modes with more than 24×80 rows/columns.
- ✓ **Direct going to any disk directory** in the OpenVMS cluster.
- ✓ Supports logicals when GotoDirectory, Copy, Rename and Move files (SYS\$LOGIN, SYS\$MANAGER, SYS\$SYSTEM, SYS\$COMMON, SYS\$SCRATCH, SYS\$DISK etc.).
- ✓ **Rotating directory panels** from the default **LEFT/RIGHT to UP/DOWN orientation** and back for view long file specifications.
- ✓ Switching view of *file size from blocks to bytes* and back.
- ✓ Command line is up to 4K characters (with OpenVMS V8.0 and later).
- ✓ *Environment file* for storing environment information when exit VTfm.

1.2 Current restrictions

- supports only LOCAL or CLUSTERWIDE disk devices when GotoDirectory, Copy, Rename, Move or Delete (if need to use NODE specification use VTfm command line);
- does not support "*", "%", "?", "[.", ".]", "[-", ".-" and "..." in directory specification when GotoDirectory, Copy, Rename or Move;
- does not open any archive files (use correspondent utility in VTfm command line).

2. Installation

The VTfm installation process is very simple and includes the following two steps:

• Unzip VTFM.ZIP kit in some directory and then use the following DCL commands

\$ SET DEFAULT [.VTFM] \$ @VTFM.COM

The result of this operation is VTfm executable VTFM.VAX_EXE for VAX, VTFM.ALPHA_EXE for ALPHA or VTFM.IA64_EXE for ITANIUM (IA64).

• Define DCL symbol for VTfm executable. For example, for Alpha architecture define

\$ VTFM :== \$DEV:[DIR]VTFM.ALPHA_EXE

where DEV and DIR are device and directory where you built VTfm executable.

Now you can invoke VTfm with the command:

\$ VTFM

Notes

1. If result of command "\$ @VTFM.COM" is not successful (for example, if you have older DEC C compiler) try to edit VTFM.COM file and modify line

"\$ cc/nodebug/..."

"\$ cc/standard=vaxc/nodebug/..."

2. If you receive a message about *exceeded quota* when execute "\$ @VTFM.COM" or invoke VTfm then *increase Pgflquo* quota for your account.

2.1 Terminal settings

to

VTfm uses terminal characteristics, which was set *before* VTfm invocation. So, you must use default 80×24 width/page (columns/rows) or set numbers of terminal columns you wish for VTfm with, for example, the following DCL command

\$ SET TERMINAL/INQUIRE/WIDTH=132

2.2 TPU settings

VTfm includes an integrated TPU facility, which also uses settings that was set for it *before* VTfm invocation. For example, if you wish EDT-style keypad functionality for VTfm integrated TPU you can define logical name EVE\$KEYPAD with the following DCL command

\$ DEFINE/NOLOG EVE\$KEYPAD EDT

3. VTfm usage

After invoke VTfm you will see the following splash screen



When you press a some key, VTfm reads your **SYS\$LOGIN** (home) directory or directories from your **environment file** (if it exists, see *3.19*) and shows the following screen

SYS\$SYSDEUICE: [UOUA]*.*;*	SYS\$SYSDEUICE:[UOUA]*.*;*
/DECC.DIR;1	/DECC.DIR;1
/INFO-ZIP.DIR;1	/INFO-ZIP.DIR;1
/NETSCAPE.DIR;1	/NETSCAPE.DIR;1
DECW\$TERMINAL_DEFAULT.DAT;7	DECW\$TERMINAL_DEFAULT.DAT;7
LOGIN.COM;8	LOGIN.COM;8
0DS-5-001.PS;1	ODS-5-001.PS;1
0DS-5-002.PS;1	0DS-5-002.PS;1
ODS-5-003.PS; 1	ODS-5-003.PS;1
0DS-5-004.PS;1	0DS-5-004.PS;1
0DS-5-005.PS;1	0DS-5-005.PS;1
0DS-5-006.PS;1	ODS-5-006.PS;1
ODS-5-007.PS;1	ODS-5-007.PS;1
ODS-5-008.PS;1	ODS-5-008.PS;1
ODS-5-009.PS;1	0DS-5-009.PS;1
ODS-5.PS;2	0DS-5.PS;2
TCPIP\$FTP_SERVER.LOG;2	TCPIP\$FTP_SERVER.LOG;2
TCPIP\$REXEC_RUN.LOG;113	TCPIP\$REXEC_RUN.LOG;113
/SUB-DIR/ 24-12-2003 19:53:45	/SUB-DIR/ 24-12-2003 19:53:45
(UTfm)INFORT::UOVA>	
<mark>11</mark> GotoUMS <mark>_12</mark> GotoDir <mark>_13</mark> View <mark>_14</mark> Edit <mark>_15</mark> Copy	<mark>16</mark> RenMov <mark>17</mark> MkDir 18Delete 19 <mark>FKey 20</mark> Quit

As you see, this screen consists of two directory panels: left and right.

When you work with VTfm, the top highlighted (*yellow* in our example) line of each panel shows the current default directory and the current files *filter wildcard mask* for this panel. This line called *a panel header* or *directory line*.

Lower the panel header you can see a directory *files list* where current file is highlighted with the *file bar* (*cyan* in our example). At top of files list VTfm shows files with DIR extension which also marked with the first slash "/" symbol.

Lower the directory files list there is *a statistics line*, where you can see brief information about current file of directory panel. If current file is a directory then VTfm shows it type: /SUB-DIR/, /UP-DIR/ or /ROOT-DIR/. If current file is *not* a directory then VTfm shows it size in blocks (the default) or bytes. In both cases VTfm also shows the current file creation date and time.

The next line of VTfm screen is *a command line*, which contains a *cursor (red* block in our example) and starts with *a prompt*, which consists of:

- (VTfm) VTfm *mark*,
- **INFORT::** OpenVMS *node name*,
- **VOVA** OpenVMS *user name*.

Command line can contain up to 255 characters for OpenVMS of versions prior 8.0 and up to 4K characters for OpenVMS of version 8.0 and later.

The bottom line of the screen is *a menu line*, which contains VTfm *operation keys* description:

:	 11 GotoVMS 12 GotoDir 13 View 14 Edit 15 Copy 16 RenMov 17 MkDir 18 Delete 19 FKey 	- - - -	<f11> <f12> <f13> <f14> <help> <d0> <f17> <f18> <f19></f19></f18></f17></d0></help></f14></f13></f12></f11>	enter to DCL environment, direct going to some disk directory, view the content of current file, edit the existent or create new text file, copy a current or selected files, rename/move a current or selected files, make a directory, delete a current or selected files, quick help (brief description of other function keys),
•	19 FKey 20 Quit		<f19> <f20></f20></f19>	<i>quick help (brief description of other function keys),</i> <i>quit VTfm.</i>

The following sections of this guide discuss the actions of these operation keys.

3.1 Navigation through directory panels

For navigation through directory panels VTfm uses the technique, which is similar to well known Norton Commander program, i.e. to navigate through disk directory content you can use *Down/Up* arrow keys (for move to the next or previous file) or *Next/Prev* keys (for move to the next or previous panel page).

For move to BOTTOM/TOP of panel press *<PF1>+<Next>* or *<PF1>+<Prev>* keys.

For switch to another panel simply press $\langle Tab \rangle$ key.

If you wish to *enter into subdirectory* then move to the directory file (DECC.DIR;1 on the previous screen) and press *<Return>* (*<Enter>*) key. The following screen is a result of such action

	S-5-007.PS;1 S-5-008.PS;1 S-5-009.PS;1 S-5.PS;2 PIP\$FTP_SERVER.LOG;2 PIP\$REXEC_RUN.LOG;113	
/UP-DIR/ 24-12-2003 19:53:45	/SUB-DIR/ 24-12-2003 19:5	3:45

For *return to the up-directory* move to the top line of panel with two initial periods ".." and also press *<Return>* (*<Enter>*) key

SYS\$SYSDEUICE:[UOUA]*.*;*	SYS\$SYSDEUICE:[UOUA]*.*;*
/DECC.DIR;1	/DECC.DIR;1
/INFO-ZIP.DIR;1	/INFO-ZIP.DIR;1
/NETSCAPE.DIR;1	/NETSCAPE.DIR;1
DECW\$TERMINAL_DEFAULT.DAT;7	DECW\$TERMINAL_DEFAULT.DAT;7
LOGIN.COM;8	LOGIN.COM;8
ODS-5-001.PS;1	ODS-5-001.PS;1
ODS-5-002.PS;1	ODS-5-002.PS;1
ODS-5-003.PS; 1	0DS-5-003.PS;1
ODS-5-004.PS; 1	0DS-5-004.PS;1
ODS-5-005.PS;1	ODS-5-005.PS;1
ODS-5-006.PS;1	0DS-5-006.PS;1
ODS-5-007.PS;1	ODS-5-007.PS;1
ODS-5-008.PS;1	0DS-5-008.PS;1
ODS-5-009.PS;1	0DS-5-009.PS;1
0DS-5.PS;2	0DS-5.PS;2
TCPIP\$FTP_SERVER.LOG;2	TCPIP\$FTP_SERVER.LOG;2
TCPIP\$REXEC_RUN.LOG;113	TCPIP\$REXEC_RUN.LOG;113
/SUB-DIR/ 24-12-2003 19:53:45	/SUB-DIR/ 24-12-2003 19:53:45
(VTfm)INFORT::VOVA>	
<mark>11</mark> GotoUMS <mark>_12</mark> GotoDir <mark>_13</mark> View <mark>_14</mark> Edit <mark>_15</mark> Copy	<mark>16</mark> RenMov <mark>17</mark> MkDir <mark>18</mark> Delete <mark>19</mark> FKey <mark>20</mark> Quit
The construction of the co	

Note that after return to up-directory the file bar *highlights* its file DECC.DIR;1.

3.2 FKey <F19> (quick help)

For further discussion we need description of additional function keys, which can be seen after pressing of $\langle F19 \rangle$ key

	YSDEVICE:[\ O-ZIP.DIR;]	<pre> Find the second s</pre>	UOUA]*.*;*	
/ ТМГ / NEг	U-21P.DIN;		— ЕШИСТТО	N KEYS		
DEC	PANELS:		OTHER:	M KEIS		
		anels (Tab)		r bade	<nexts< th=""><th>cr></th></nexts<>	cr>
ODS	Rotate pa	anels [^] W	Bottom	r page of dir	<pre><pf1>+<nexts< pre=""></nexts<></pf1></pre>	cr>
DDS	CURSOR MO	UEMENT:	Previou	s dir page	< PrevS	cr>
DDS	Chars	arr L/R	Top of	s dir page dir	<pre><pf1>+<prevs< prevs<="" th=""><th>cr></th></prevs<></pf1></pre>	cr>
DDS	Lines	arr U/D	Find fi	le(s) by name		
DDS	Ben of L	ine [°] H	Select	file(s) by name		
DDS	End of l	ine [°] E	Unselec	t file(s) by name	e <remo< th=""><th>ve></th></remo<>	ve>
DDS	DELETE:		Select/	Unselect curr fi		
DDS	Char	<backspace></backspace>	File(s)	size in blocks/		^В
DDS	Line	<pf4></pf4>	Insert	curr file name i	nto command	^F
DDS	Beg of l	ine îV	Insert	curr dir name in	to command 👘	^D
TCP			Extract	previous comman	d	ĵU
		<return></return>				ÎN
THI		< KP0>	Refresh	screen		ÂR 👘
TPU ^l	- Press any	key				G
	1 block	6-01-2005	20:40:41	/SUB-DIR/	24-12-2003	19:53:
[fm)	INFORT:: VO	UA>				
			dit <mark>15</mark> Copy	16 <mark>RenMov</mark> 17 <mark>MkDi</mark>	<mark>r 18</mark> Delete 19F	Key <mark>20</mark> Q

3.3 Rotation of directory panels

Press some key to delete the "FUNCTION KEYS" window. On the next screen you see that current left panel file has a long specification

SYS\$SYSDEUICE: [UOUA]*.*;*	SYS\$SYSDEUICE:[UOUA]*.*;*
/INFO-ZIP.DIR;1	/DECC.DIR;1
/NETSCAPE.DIR;1	/INFO-ZIP.DIR;1
DECW\$TERMINAL_DEFAULT.DAT;7	/NETSCAPE.DIR;1
LOGIN.COM;8	DECW\$TERMINAL_DEFAULT.DAT;7
ODS-5-001.PS;1	LOGIN.COM;8
ODS-5-002.PS;1	ODS-5-001.PS;1
ODS-5-003.PS;1	0DS-5-002.PS;1
0DS-5-004.PS;1	ODS-5-003.PS;1
ODS-5-005.PS;1	0DS-5-004.PS;1
ODS-5-006.PS;1	0DS-5-005.PS;1
ODS-5-007.PS;1	ODS-5-006.PS;1
ODS-5-008.PS;1	0DS-5-007.PS;1
ODS-5-009.PS;1	ODS-5-008.PS;1
	ODS-5-009.PS;1
TCPIP\$FTP_SERVER.LOG;2	
TCPIP\$REXEC_RUN.LOG; 113	TCPIP\$FTP_SERVER.LOG;2
THIS_FILE_HAS_A_LONG_NAME.AND_LONG_EX	TCPIP\$REXEC_RUN.LOG; 113
TPU\$WORK.TPU\$WORK;1	THIS_FILE_HAS_A_LONG_NAME.AND_LONG_EX
1 block 6-01-2005 20:40:41	/SUB-DIR/ 24-12-2003 19:53:45
(VTfm)INFORT::VOVA> 11GotoVMS 12GotoDir 13View 14Edit 15Copy	16 <mark>RenMov 17MkDir 18</mark> Delete 19 <mark>FKey 20</mark> Quit

Now press W key and look on the screen

SYS\$SYSDEUICE: [U0UA] ODS-5-007.PS;1 ODS-5-008.PS;1 ODS-5-009.PS;1 ODS-5.PS;2 TCPIP\$FTP_SERVER.L0 THIS_FILE_HAS_A_L0)G ; 2	SION; 1	
	1 block	6-01-2005	20:40:41
SYS\$SYSDEUICE: [UOUA] /DECC.DIR;1 /INFO-ZIP.DIR;1 /NETSCAPE.DIR;1 DECW\$TERMINAL_DEFAU LOGIN.COM;8 ODS-5-001.PS;1 ODS-5-002.PS;1			
	/SUB-DIR/	24-12-2003	19:53:45
(VTfm)INFORT::VOVA> 11 <mark>GotoVMS</mark> 12 <mark>GotoDir</mark>	13 <mark>View 14</mark> Edit 15 <mark>Copy 16</mark>	<mark>RenMov 17</mark> MkDir <mark>18</mark> Delete 19FK	(ey <mark> 20</mark> Quit

Yes, the LEFT panel is now a TOP one and RIGHT is a BOTTOM! Press ^*W* key once more

<pre>rSYS\$SYSDEUICE:[UOUA]*.*;*</pre>	SYS\$SYSDEUICE:[UOUA]*.*;*
/INFO-ZIP.DIR; 1	/DECC.DIR; 1
/NETSCAPE.DIR;1	/INFO-ZIP.DIR;1
DECW\$TERMINAL_DEFAULT.DAT;7	/NETSCAPE.DIR;1
LOGIN.COM;8	DECW\$TERMINAL_DEFAULT.DAT;7
0DS-5-001.PS;1	LOGIN.COM;8
ODS-5-002.PS;1	ODS-5-001.PS;1
ODS-5-003.PS;1	0DS-5-002.PS;1
ODS-5-004.PS;1	0DS-5-003.PS;1
ODS-5-005.PS;1	0DS-5-004.PS;1
ODS-5-006.PS;1	0DS-5-005.PS;1
ODS-5-007.PS;1	ODS-5-006.PS;1
ODS-5-008.PS;1	ODS-5-007.PS;1
ODS-5-009.PS;1	ODS-5-008.PS;1
ODS-5.PS;2	ODS-5-009.PS;1
TCPIP\$FTP_SERVER.LOG;2	0DS-5.PS;2
TCPIP\$REXEC_RUN.LOG;113	TCPIP\$FTP_SERUER.LOG;2
THIS_FILE_HAS_A_LONG_NAME.AND_LONG_EX	TCPIP\$REXEC_RUN.LOG;113
TPU\$WORK.TPU\$WORK;1	THIS_FILE_HAS_A_LONG_NAME.AND_LONG_EX
1 block 6-01-2005 20:40:41	/SUB-DIR/ 24-12-2003 19:53:45
(UTfm)INFORT::UOUA> 11GotoUMS 12GotoDir 13Uiew 14Edit 15Copy	<mark>16</mark> RenMov 17 <mark>MkDir 18</mark> Delete 19 <mark>FKey 20</mark> Quit

3.4 View file size

Now move to the file ODS-5-009.PS;1 and look on the *statistics line* in which you see that size of this file is 1030 *blocks* (this is a default view)

	SYS\$SYSDEUICE:[UOUA]*.*;*
/DECC.DIR; 1	/DECC.DIR; 1
/INFO-ZIP.DIR;1	/INFO-ZIP.DIR;1
/NETSCAPE.DIR;1	/NETSCAPE.DIR; 1
DECW\$TERMINAL_DEFAULT.DAT;7	DECW\$TERMINAL_DEFAULT.DAT;7
LOGIN.COM;8	LOGIN.COM;8
0DS-5-001.PS;1	0DS-5-001.PS; 1
0DS-5-002.PS;1	0DS-5-002.PS;1
0DS-5-003.PS;1	0DS-5-003.PS;1
0DS-5-004.PS;1	0DS-5-004.PS;1
0DS-5-005.PS;1	0DS-5-005.PS;1
ODS-5-006.PS;1	0DS-5-006.PS; 1
ODS-5-007.PS;1	0DS-5-007.PS;1
ODS-5-008.PS;1	0DS-5-008.PS; 1
ODS-5-009.PS;1	0DS-5-009.PS;1
0DS-5.PS;2	0DS-5.PS;2
TCPIP\$FTP_SERVER.LOG;2	TCPIP\$FTP_SERVER.LOG;2
TCPIP\$REXEC_RUN.LOG;113	TCPIP\$REXEC_RUN.LOG;113
THIS_FILE_HAS_A_LONG_NAME.AND_LONG_EX	THIS_FILE_HAS_A_LONG_NAME.AND_LONG_EX
1030 blocks 11-10-2004 22:18:40	/SUB-DIR/ 24-12-2003 19:53:45
(UTfm)INFORT::UOUA>	
116otoUMS <mark> 12</mark> 6otoUrr 13View 14Edit 15Copy	<mark>16</mark> RenMov <mark> 17</mark> MkDir <mark>18</mark> Delete 19FKey 20Quit

If you wish to know the file size in *bytes* than press ^*B* key

SYS\$SYSDEUICE:[UOUA]*.*;*	SYS\$SYSDEUICE:[UOUA]*.*;*
/DECC.DIR; 1	/DECC.DIR; 1
/INFO-ZIP.DIR;1	/INFO-ZIP.DIR; 1
/NETSCAPE.DIR; 1	/NETSCAPE.DIR; 1
DECW\$TERMINAL_DEFAULT.DAT;7	DECW\$TERMINAL_DEFAULT.DAT;7
LOGIN.COM; 8	LOGIN.COM;8
ODS-5-001.PS;1	0DS-5-001.PS;1
ODS-5-002.PS;1	0DS-5-002.PS;1
ODS-5-003.PS;1	0DS-5-003.PS;1
ODS-5-004.PS;1	0DS-5-004.PS;1
ODS-5-005.PS;1	0DS-5-005.PS;1
ODS-5-006.PS;1	ODS-5-006.PS;1
ODS-5-007.PS;1	ODS-5-007.PS;1
ODS-5-008.PS;1	0DS-5-008.PS;1
ODS-5-009.PS;1	0DS-5-009.PS;1
0DS-5.PS;2	0DS-5.PS;2
TCPIP\$FTP_SERVER.LOG;2	TCPIP\$FTP_SERVER.LOG;2
TCPIP\$REXEC_RUN.LOG;113	TCPIP\$REXEC_RUN.LOG;113
THIS_FILE_HAS_A_LONG_NAME.AND_LONG_EX	THIS_FILE_HAS_A_LONG_NAME.AND_LONG_EX
527200 bytes 11-10-2004 22:18:40	/SUB-DIR/ 24-12-2003 19:53:45
(UTfm)INFORT::UOUA> 11GotoUMS_12GotoDir_13Uiew_14Edit_15Conu	16 <mark>RenMov 17MkDir 18</mark> Delete 19FKey 20 <mark>Quit</mark>

Now you see that file ODS-5-009.PS;1 has 527200 *bytes*. Press ^*B* key again to view file size in blocks.

3.5 GotoVMS <F11> (enter to DCL environment)

Sometimes you need to enter to OpenVMS DCL environment without leaving VTfm program. For this press $\langle F11 \rangle$ key and VTfm creates a *subprocess* in which you can do your work. To return to VTfm simply LOgout from this subprocess.

Device Device Error Volume Free Trans Mnt Name Status Count Label Blocks Count Cnt INFORT\$DUA0: Mounted 0 OUMSUAXSYS 1337895 279 1 INFORT\$DUA1: Online 0 INFORT\$DUA2: Mounted wrtick 0 VAXDOCDEC991 259314 1 1 INFORT\$DUB3: Mounted wrtick 0 VAXDOCDEC992 180729 1 1 INFORT\$DUB0: Online 0 INFORT\$DUB0: Online 0 INFORT\$DUB1: Online 0 INFORT\$DUB2: Online 0 INFORT\$DUB3: Online 0 (UTfm)INFORT::UOVA> Io Process VOVA_1 logged out at 6-JAN-2005 21:53:30.71 Press any key	GotoVMS (to return to V (VTfm)INFORT::VOVA> sh		y LOgout)				
NameStatusCountLabelBlocksCountCntINFORT\$DUA0:Mounted00UMSUAXSYS13378952791INFORT\$DUA1:Online0INFORT\$DUA2:Mounted wrtlck0UAXDOCDEC99125931411INFORT\$DUA3:Mounted wrtlck0UAXDOCDEC99218072911INFORT\$DUB0:Online0INFORT\$DUB1:01INFORT\$DUB1:Online0011INFORT\$DUB2:Online0011INFORT\$DUB3:Online0010INFORT::UOUA> IoProcessUUA116153:30.71-	Поцісо	Лоцісо		Freeze	llolumo	Froo	Trans	Mnt
INFORT\$DUA0: Mounted 0 0UMSUAXSYS 1337895 279 1 INFORT\$DUA1: Online 0 0 UAXDOCDEC991 259314 1 1 INFORT\$DUA2: Mounted wrtlck 0 UAXDOCDEC991 259314 1 1 INFORT\$DUA3: Mounted wrtlck 0 UAXDOCDEC992 180729 1 1 INFORT\$DUB0: Online 0 0 0 0 1 1 INFORT\$DUB1: Online 0 0 0 1								
INFORT\$DUA1: Online 0 INFORT\$DUA2: Mounted wrtlck 0 UAXDOCDEC991 259314 1 1 INFORT\$DUA3: Mounted wrtlck 0 UAXDOCDEC992 180729 1 1 INFORT\$DUB0: Online 0 INFORT\$DUB1: Online 0 INFORT\$DUB2: Online 0 INFORT\$DUB2: Online 0 (VTfm)INFORT::UOVA> lo Process VOVA_1 logged out at 6-JAN-2005 21:53:30.71								1
INFORT\$DUA2: Mounted wrtick 0 UAXDOCDEC991 259314 1 1 INFORT\$DUA3: Mounted wrtick 0 UAXDOCDEC992 180729 1 1 INFORT\$DUB0: Online 0 INFORT\$DUB1: Online 0 INFORT\$DUB2: Online 0 INFORT\$DUB3: Online 0 (UTfm)INFORT::UOUA> lo Process VOVA_1 logged out at 6-JAN-2005 21:53:30.71					001130111313	13310/3		
INFORT\$DUA3: Mounted wrtick 0 VAXDOCDEC992 180729 1 1 INFORT\$DUB0: Online 0 INFORT\$DUB1: Online 0 INFORT\$DUB2: Online 0 INFORT\$DUB3: Online 0 (VTfm)INFORT::UOVA> lo Process VOVA_1 logged out at 6-JAN-2005 21:53:30.71			wrtick			259314	1	1
INFORT\$DUB0: Online O INFORT\$DUB1: Online O INFORT\$DUB2: Online O INFORT\$DUB3: Online O (VTfm)INFORT::VOVA> Io Process VOVA_1 logged out at 6-JAN-2005 21:53:30.71							i	1
INFORT\$DUB1: Online 0 INFORT\$DUB2: Online 0 INFORT\$DUB3: Online 0 (UTfm)INFORT::UDUA> lo Process VOVA_1 logged out at 6-JAN-2005 21:53:30.71					*******	100123		
INFORT\$DUB2: Online O INFORT\$DUB3: Online O (UTfm)INFORT::UOUA> lo Process VOVA_1 logged out at 6-JAN-2005 21:53:30.71								
INFORT\$DUB3: Online O (VTfm)INFORT::UOVA> lo Process VOVA_1 logged out at 6-JAN-2005 21:53:30.71 								
(VTfm)INFORT::UOVA> lo Process VOVA_1 logged out at 6-JAN-2005 21:53:30.71 _		Online		0				
	Process VOVA_1 logged	out at	6-JAN-20	05 21:5	3:30.71			
Press any key								
	Press any key							

Note

If you receive a message about exceeded quota then increase Pgflquo quota for your account.

3.6 GotoDir <F12> (direct going to some disk directory)

Sometimes it is quicker to go to some directory without navigation through directory tree with pressing of $\langle Return \rangle$ ($\langle Enter \rangle$) key. It is also useful because in OpenVMS operating system access to root disk directory may be denied for nonprivilege user. This possibility is also the only way to go to directory on another disk and use various OpenVMS logicals. So, press $\langle F12 \rangle$ key

SYS\$SYSDEUICE: [UOUA]*.*;* /DECC.DIR;1 /INFO-ZIP.DIR;1 /NETSCAPE.DIR;1 DECW\$TERMINAL_DEFAULT.DAT;7 LOGIN.COM;8 ODS-5-001.PS;1 ODS-5-002.PS;1 GO TO DI SYS\$SYSDEUICE: [UOUA]	SYS\$SYSDEUICE: [UOUA.INFO-ZIP]*.*;* UNZIP.EXE;1 ZIP.EXE;1 ZIPCLOAK.EXE;1 ZIPNOTE.EXE;1 ZIPSPLIT.EXE;1 ZIP_CLI.EXE;1 RECTORY	
ODS-5-008.PS;1 ODS-5-009.PS;1 ODS-5.PS;2 TCPIP\$FTP_SERUER.LOG;2 TCPIP\$REXEC_RUN.LOG;113 THIS_FILE_HAS_A_LONG_NAME.AND_LONG_EX		
1030 blocks 11-10-2004 22:18:40	/UP-DIR/ 10-08-2004 02:53:39	
(VTfm)INFORT::UOVA> 11GotoVMS 12 <mark>GotoDir 13View 14</mark> Edit 15Copy 16RenMov 17MkDir 18Delete 19FKey 20Quit		

In the "GO TO DIRECTORY" window you can input and edit directory specification by ordinary way as in the OpenVMS command line (for cancel GotoDir operation press VTfm escape < KP0 > key)

SYS\$SYSDEUICE: [UOUA]*.*;* /DECC.DIR;1 /INFO-ZIP.DIR;1 /NETSCAPE.DIR;1 DECW\$TERMINAL_DEFAULT.DAT;7 LOGIN.COM;8 ODS-5-001.PS;1 ODS-5-002.PS;1 GO TO DI	SYS\$SYSDEUICE: [UOUA.INFO-ZIP]*.*;* UNZIP.EXE;1 ZIP.EXE;1 ZIPCLOAK.EXE;1 ZIPNOTE.EXE;1 ZIPSPLIT.EXE;1 ZIP_CLI.EXE;1 RECTORY	
dub0:[vova]		
ODS-5-008.PS;1 ODS-5-009.PS;1 ODS-5.PS;2 TCPIP\$FTP_SERUER.LOG;2 TCPIP\$REXEC_RUN.LOG;113 THIS_FILE_HAS_A_LONG_NAME.AND_LONG_EX		
1030 blocks 11-10-2004 22:18:40	/UP-DIR/ 10-08-2004 02:53:39	
(<mark>VTfm)INFORT::VOVA> 11</mark> GotoVMS <mark> 12</mark> GotoDir 13 <mark>View 14</mark> Edit 15 <mark>Copy 16</mark> RenMov 17 <mark>MkDir 18</mark> Delete 19FKey 20Quit		

Now press <*Return*> (<*Enter*>) key to execute your command

DUBO:[VOVA]*.*;* No files found	SYS\$SYSDEUICE: [UOUA.INFO-ZIP]*.*;* UNZIP.EXE;1 ZIP.EXE;1 ZIPCLOAK.EXE;1 ZIPNOTE.EXE;1 ZIPSPLIT.EXE;1 ZIP_CLI.EXE;1
/ROOT-DIR/	/UP-DIR/ 10-08-2004 02:53:39
(UTfm)INFORT::UOUA> <mark>-</mark> 11 <mark>GotoUMS 12</mark> GotoDir 13 <mark>View 14</mark> Edit 15 <mark>Copy</mark>	<mark>16</mark> RenMov 17 <mark>MkDir 18</mark> Delete 19 <mark>FKey 20</mark> Quit

DUBO:[VOVA]*.*;* No files found GO TO DI sys\$manager	SYS\$SYSDEUICE: [UOUA.INFO-ZIP]*.*;* UNZIP.EXE; 1 ZIP.EXE; 1 ZIPCLOAK.EXE; 1 ZIPNOTE.EXE; 1 ZIPSPLIT.EXE; 1 ZIP_CLI.EXE; 1 RECTORY
/ROOT-DIR/	/UP-DIR/ 10-08-2004 02:53:39
L (VTfm)INFORT::VOVA> 11GotoVMS <mark>12</mark> GotoDir <mark>13</mark> View <mark>14</mark> Edit <mark>15</mark> Copy	16 <mark>RenMov 17</mark> MkDir 18 <mark>Delete 19</mark> FKey 20Qui [.]

Press <*F12*> key once more and input name of SYS\$MANAGER directory

Press <*Return*> (<*Enter*>) key for go to SYS\$MANAGER

ACCOUNTNG.DAT;1 CLUE\$HISTORY.DATA;1 CLUE\$LAST_INFORT.LIS;1 DCE_OUT0000011B.TMP;1 DCE_OUT0000011C.TMP;1 DECNET_REGISTER_IMPORT_FILE_INFORT.TX DECW\$TERMINAL_DEFAULT.DAT;18 DNS\$ADUER_ERROR.LOG;244 DNS\$ADUER_ERROR.LOG;243 DNS\$ADUER_ERROR.LOG;242 DTS\$\$ERROR.LOG;106 DTSS\$ERROR.LOG;106 DTSS\$ERROR.LOG;104 DTSS\$ERROR.LOG;102 DTSS\$ERROR.LOG;101 DTSS\$ERROR.LOG;100	UNZIP.EXE;1 ZIP.EXE;1 ZIPCLOAK.EXE;1 ZIPNOTE.EXE;1 ZIPSPLIT.EXE;1 ZIP_CLI.EXE;1		
/SUB-DIR/ 25-12-2003 23:59:53	/UP-DIR/	10-08-2004	02:53:39

Press <*F12*> key and input directory specification SYS\$COMMON:[000000]

	SYS\$SYSDEUICE:[UOUA.INFO-ZIP]*.*;* UNZIP.EXE;1 ZIP.EXE;1 ZIPCLOAK.EXE;1 ZIPNOTE.EXE;1 ZIPSPLIT.EXE;1 ZIP_CLI.EXE;1 RECTORY	
DTSS\$ERROR.LOG;105 DTSS\$ERROR.LOG;104 DTSS\$ERROR.LOG;103 DTSS\$ERROR.LOG;102 DTSS\$ERROR.LOG;101 DTSS\$ERROR.LOG;100 /SUB-DIR/ 25-12-2003 23:59:53	/UP-DIR/ 10-08-2004 02:53:39	
(<mark>UTfm)INFORT::UOVA> 11</mark> GotoVMS <mark> 12</mark> GotoDir <mark> 13</mark> View 14 <mark>Edit 15Copy 16</mark> RenMov 17MkDir 18Delete 19FKey 20Quit		

When you press *<Return>* (*<Enter>*) key you go to SYS\$COMMON:[000000] directory

<pre>rsys\$common:[000000]*.*;*</pre>	SYS\$SYSDEUICE:[UOUA.INFO-ZIP]*.*;*
/CDA\$LIBRARY.DIR;1	
/DCELOCAL.DIR;1	UNZIP.EXE;1
/DECC\$LIB.DIR; 1	ZIP.EXE;1
/DECW\$BOOK.DIR;1	ZIPCLOAK.EXE;1
/DECW\$DEFAULTS.DIR;1	ZIPNOTE.EXE; 1
/DECW\$INCLUDE.DIR;1	ZIPSPLIT.EXE;1
/HYPERHELP.DIR; 1	ZIP_CLI.EXE;1
/MOM\$SYSTEM.DIR;1	
/SYS\$I18N.DIR;1 /SYS\$KEYMAP.DIR;1	
/SYS\$LDR.DIR; 1	
/SYS\$STARTUP.DIR; 1	
/SYS\$ZONEINFO.DIR; 1	
/SYSCBI.DIR; 1	
/SYSERR.DIR; 1	
/SYSEXE.DIR;1	
/SYSFONT.DIR;1	
/SYSHLP.DIR;1	
/SUB-DIR/ 19-10-2004 16:18:51	/UP-DIR/ 10-08-2004 02:53:39
(UTfm)INFORT::UOUA>	
<mark>11</mark> GotoUMS <mark>_12</mark> GotoDir <mark>_13</mark> View <mark>_14</mark> Edit <mark>_15</mark> Copy	<mark>- 16</mark> RenMov <mark>- 17</mark> MkDir <mark>- 18</mark> Delete <mark>- 19</mark> FKey <mark>- 20</mark> Quit

Now press <*F12*> key and enter name of SYS\$LOGIN directory

SYS\$COMMON: [000000]*.*;* /CDA\$LIBRARY.DIR; 1 /DCELOCAL.DIR; 1 /DECC\$LIB.DIR; 1 /DECW\$BOOK.DIR; 1 /DECW\$DEFAULTS.DIR; 1 /DECW\$INCLUDE.DIR; 1 /HYPERHELP.DIR; 1 GO TO DI	SYS\$SYSDEUICE: [UOUA.INFO-ZIP]*.*;* UNZIP.EXE;1 ZIP.EXE;1 ZIPCLOAK.EXE;1 ZIPNOTE.EXE;1 ZIPSPLIT.EXE;1 ZIP_CLI.EXE;1 RECTORY	
sys\$login /SYS\$ZONEINFO.DIR;1 /SYSCBI.OIR;1 /SYSERR.DIR;1 /SYSEXE.DIR;1 /SYSFONT.DIR;1 /SYSHLP.DIR;1		
/SUB-DIR/ 19-10-2004 16:18:51	/UP-DIR/ 10-08-2004 02:53:39	
(VTfm)INFORT::VOVA> 11 <mark>GotoVMS 12</mark> GotoDir 13View 14 <mark>Edit 15Copy 16</mark> RenMov 17MkDir 18Delete 19FKey 20Quit		

Go to SYS\$LOGIN by pressing <*Return*> (<*Enter*>) key

/SUB-DIR/ 24-12-2003 19:53:45 /UP-DIR/ 10-08-2004 02:53:39	SYS\$SYSDEUICE: [UOUA]*.*;* /DECC.DIR; 1 /INFO-ZIP.DIR; 1 /NETSCAPE.DIR; 1 DECW\$TERMINAL_DEFAULT.DAT; 7 LOGIN.COM; 8 ODS-5-001.PS; 1 ODS-5-002.PS; 1 ODS-5-003.PS; 1 ODS-5-004.PS; 1 ODS-5-005.PS; 1 ODS-5-006.PS; 1 ODS-5-008.PS; 1 ODS-5-009.PS; 1 ODS-5-009.PS; 1 ODS-5.PS; 2 TCPIP\$FTP_SERUER.LOG; 2 TCPIP\$REXEC_RUN.LOG; 113 THIS_FILE_HAS_A_LONG_NAME.AND_LONG_EX	SYS\$SYSDEUICE: [UOUA.INFO-ZIP]*.*;* UNZIP.EXE;1 ZIP.EXE;1 ZIPCLOAK.EXE;1 ZIPNOTE.EXE;1 ZIPSPLIT.EXE;1 ZIP_CLI.EXE;1
	/SUB-DIR/ 24-12-2003 19:53:45	/UP-DIR/ 10-08-2004 02:53:39

3.7 View <F13> (view the content of current file)

Move to the file DECW\$TERMINAL_DEFAULT.DAT;7

/DECC.DIR;1 /INFO-ZIP.DIR;1 /NETSCAPE.DIR;1 DECW\$TERMINAL_DEFAULT.DAT;7 LOGIN.COM;8 ODS-5-001.PS;1 ODS-5-002.PS;1 ODS-5-003.PS;1 ODS-5-004.PS;1 ODS-5-004.PS;1 ODS-5-005.PS;1 ODS-5-006.PS;1 ODS-5-008.PS;1 ODS-5-008.PS;1 ODS-5-009.PS;1 ODS-5.PS;2 TCPIP\$FTP_SERUER.LOG;2	SYS\$SYSDEUICE: [UOUA.INFO-ZIP]*.*;* UNZIP.EXE;1 ZIP.EXE;1 ZIPCLOAK.EXE;1 ZIPNOTE.EXE;1 ZIPSPLIT.EXE;1 ZIP_CLI.EXE;1	
TCPIP\$REXEC_RUN.LOG;113 THIS_FILE_HAS_A_LONG_NAME.AND_LONG_EX		
3 blocks 20-11-2004 20:52:40	/UP-DIR/ 10-08-2004 02:53:39	
(VTfm)INFORT::VOVA> 11 <mark>GotoVMS</mark> 12 <mark>GotoDir 13</mark> View 14 <mark>Edit 15</mark> Copy 16 <mark>RenMov 17</mark> MkDir 18 <mark>Delete 19</mark> FKey 20Quit		

And press $\langle F13 \rangle$ key to invoke the *TPU* editor

DECW\$TERMINAL.main.terminal.displayHeightInc:	14
DECW\$TERMINAL.main.terminal.bitPlanes: 4	
DECW\$TERMINAL.main.terminal.background: #000000	000000
DECW\$TERMINAL.main.terminal.screenMode: off	
DECW\$TERMINAL.main.terminal.littleFontOtherName	: -dec-terminal-*-*-*-14∳
DECW\$TERMINAL.main.terminal.fontUsed: -dec-te	rminal-medium-r-narrow14-100-1 🖡
DECW\$TERMINAL.main.terminal.fontSetSelection:	1
DECW\$TERMINAL.main.terminal.rows: 48	
DECW\$TERMINAL.main.terminal.autoWrapEnable:	on
DECW\$TERMINAL.main.terminal.condensedFont:	on
DECW\$TERMINAL.main.terminal.columns: 132	
DECW\$TERMINAL.main.terminal.foreground: #ffffff	ffffff
DECW\$TERMINAL.main.terminal.borderColor:	#ffffffffffff
DECW\$TERMINAL.main.terminal.displayWidth:	819
DECW\$TERMINAL.main.terminal.wmHintsBaseHeight:	32
DECW\$TERMINAL.main.terminal.gsFontOtherName:	-dec-terminal-*-*-*-gs-14-*-*-*∳
DECW\$TERMINAL.main.terminal.bigFontOtherName:	-bitstream-terminal-*-*-*-18-*
DECW\$TERMINAL.main.terminal.displayHeight:	
DECW\$TERMINAL.main.terminal.defaultTitle:	Vova
DECW\$TERMINAL.main.terminal.displayWidthInc:	6
DECW\$TERMINAL.main.terminal.defaultIconName:	Uova
	ad-only Unmodifiable Forward
Buffer: DECW\$TERMINAL_DEFAULT.DAT Re	au-oniy i onmourilable i rorwaru
Editing encoder is not being journaled	
Editing session is not being journaled	

Exit from TPU editor

DECW\$TERMINAL.main.terminal.screenMode: off	
DECW\$TERMINAL.main.terminal.littleFontOtherName	.: -dec-terminal-*-*-*-14∳
DECW\$TERMINAL.main.terminal.fontUsed: -dec-te	
DECW\$TERMINAL.main.terminal.fontSetSelection:	1
DECW\$TERMINAL.main.terminal.rows: 48	
DECW\$TERMINAL.main.terminal.autoWrapEnable:	on
DECW\$TERMINAL.main.terminal.condensedFont:	on
DECW\$TERMINAL.main.terminal.columns: 132	
DECW\$TERMINAL.main.terminal.foreground: #ffffff	ffffff
DECW\$TERMINAL.main.terminal.borderColor:	#fffffffffff
DECW\$TERMINAL.main.terminal.displayWidth:	819
DECW\$TERMINAL.main.terminal.wmHintsBaseHeight:	32
DECW\$TERMINAL.main.terminal.gsFontOtherName:	-dec-terminal-*-*-*-gs-14-*-*-*∳
DECW\$TERMINAL.main.terminal.bigFontOtherName:	-bitstream-terminal-*-*-*-18-*∳
DECW\$TERMINAL.main.terminal.displayHeight:	680
DECW\$TERMINAL.main.terminal.defaultTitle:	Vova
DECW\$TERMINAL.main.terminal.displayWidthInc:	6
DECW\$TERMINAL.main.terminal.defaultIconName:	Vova
Buffer: DECW\$TERMINAL_DEFAULT.DAT Re	ad-only Unmodifiable Forward
Editing session is not being jou r naled	
Press any key	

And press some key to return to VTfm panels screen

SYS\$SYSDEUICE: [UOUA]*.*;* /DECC.DIR;1 /INFO-ZIP.DIR;1 /NETSCAPE.DIR;1 DECW\$TERMINAL_DEFAULT.DAT;7 LOGIN.COM;8 ODS-5-001.PS;1 ODS-5-002.PS;1 ODS-5-004.PS;1 ODS-5-004.PS;1 ODS-5-006.PS;1 ODS-5-006.PS;1 ODS-5-008.PS;1 ODS-5-008.PS;1 ODS-5-009.PS;1 ODS-5-009.PS;1 ODS-5.PS;2 TCPIP\$FTP_SERUER.LOG;2 TCPIP\$REXEC_RUN.LOG;113 THIS_FILE_HAS_A_LONG_NAME.AND_LONG_EX	SYS\$SYSDEUICE:[UOUA.INFO-ZIP]*.*;* UNZIP.EXE;1 ZIP.EXE;1 ZIPCLOAK.EXE;1 ZIPNOTE.EXE;1 ZIPSPLIT.EXE;1 ZIP_CLI.EXE;1
3 blocks 20-11-2004 20:52:40	/UP-DIR/ 10-08-2004 02:53:39
(UTfm)INFORT::UOUA> 11 <mark>GotoUMS 12</mark> GotoDir 13 <mark>View 14</mark> Edit 15 <mark>Copy</mark>	<mark>16</mark> RenMov <mark> 17</mark> MkDir <mark>18</mark> Delete 19FKey 20Quit

3.8 Edit <F14> (edit the existent or create new text file)

Move to the file DECC.DIR;1 of DECC directory and enter into the subdirectory SYS\$SYSDEVICE:[VOVA.DECC.VTFM.A] by pressing *<Return>* (*<Enter>*) key

FSPEC_PT.ALPHA_MAR; 1 FSPEC_PT.IA64_MAR; 1 FSPEC_PT.UAX_MAR; 1 UTFM.C; 515 UTFM.C; 514 UTFM.C; 513 UTFM.C; 512 UTFM.C; 510 UTFM.C; 509 UTFM.C; 509 UTFM.C; 507 UTFM.C; 506 UTFM.C; 505	UNZIP.EXE;1 ZIP.EXE;1 ZIPCLOAK.EXE;1 ZIPNOTE.EXE;1 ZIPSPLIT.EXE;1 ZIP_CLI.EXE;1
/UP-DIR/ 1-01-2005 08:19:34	/UP-DIR/ 10-08-2004 02:53:39

After that move to the file VTFM.C;512

SYS\$SYSDEUICE: [UOUA.DECC.UTFM.A]*.*;* FSPEC_PT.ALPHA_MAR; 1 FSPEC_PT.IA64_MAR; 1 FSPEC_PT.UAX_MAR; 1 UTFM.C; 515 UTFM.C; 514 UTFM.C; 513 UTFM.C; 512 UTFM.C; 510 UTFM.C; 509 UTFM.C; 508 UTFM.C; 506 UTFM.C; 505	SYS\$SYSDEUICE: [UOUA.INFO-ZIP]*.*;* UNZIP.EXE;1 ZIP.EXE;1 ZIPCLOAK.EXE;1 ZIPNOTE.EXE;1 ZIPSPLIT.EXE;1 ZIP_CLI.EXE;1
256 blocks 1-01-2005 08:19:34	/UP-DIR/ 10-08-2004 02:53:39
(VTfm)INFORT::UOVA> <mark>-</mark> 11 <mark>GotoVMS 12</mark> GotoDir 13 <mark>View 14</mark> Edit 15 <mark>Copy</mark>	<mark>16</mark> RenMov <mark> 17</mark> MkDir <mark>18</mark> Delete 19 <mark>FKey 20</mark> Quit

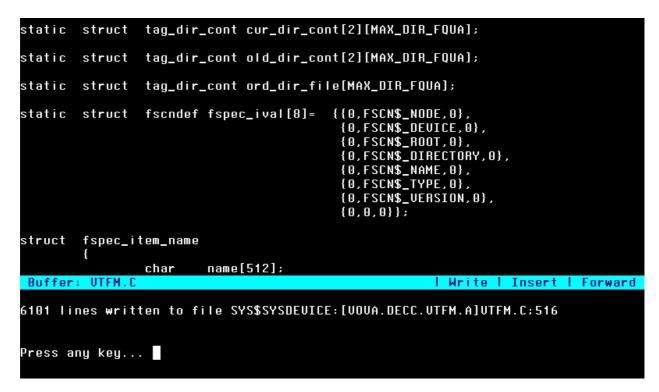
When you press $\langle F14 \rangle$ key then "EDIT" window appears (for cancel Edit operation press VTfm *escape* $\langle KP0 \rangle$ key)

 FSPEC_PT.ALPHA_MAR;1 FSPEC_PT.IA64_MAR;1 FSPEC_PT.UAX_MAR;1 UTFM.C;515 UTFM.C;514 UTFM.C;513	SYS\$SYSDEUICE: [UOUA.INFO-ZIP]*.*;* UNZIP.EXE;1 ZIP.EXE;1 ZIPCLOAK.EXE;1 ZIPNOTE.EXE;1 ZIPSPLIT.EXE;1 ZIP_CLI.EXE;1 IT
UTFM.C;507 UTFM.C;506 UTFM.C;505	
256 blocks 1-01-2005 08:19:34	/UP-DIR/ 10-08-2004 02:53:39 16 <mark>RenMov 17MkDir 18</mark> Delete 19 <mark>FKey 20</mark> Quit

If you press *<Return>* (*<Enter>*) key now then *TPU* editor starts to edit file VTFM.C;512

/*	
**	Copyright (c) 1991–2004 UTfm. All rights reserved.
**	
**	Norton Commander Style
**	Video Terminals File Manager
**	UMS-version
**	
**	Author: Vladimir K. Vershinin, Moscow, Russia
**	E-mail: vershinin-vk@tochka.ru
**	
**	History:
**	
**	1991, July - First release 1.0 with name NCvtf.
**	
**	- developed on VAXC v3.0;
**	- supports UT-terminal modes with only
**	24x80 rows/columns;
**	- uses EDT\$EDIT routine for view and edit;
**	- works only on VAXUMS.
**	
**	
Buff	er: UTFM.C Write Insert Forward
EDT k	eypad defined (for more information, see help on EDT DIFFERENCES).

After exit from TPU with creation of a new version of VTFM.C you will see



Press some key and return to VTfm panels screen

	SYS\$SYSDEUICE: [UOUA.DECC.UTFM.A]*.*;* FSPEC_PT.ALPHA_MAR;1 FSPEC_PT.IA64_MAR;1 FSPEC_PT.UAX_MAR;1 UTFM.C;516 UTFM.C;515 UTFM.C;513 UTFM.C;511 UTFM.C;510 UTFM.C;509 UTFM.C;508 UTFM.C;506 UTFM.C;505	SYS\$SYSDEUICE: [UOUA.INFO-ZIP]*.*;* UNZIP.EXE;1 ZIP.EXE;1 ZIPCLOAK.EXE;1 ZIPNOTE.EXE;1 ZIPSPLIT.EXE;1 ZIP_CLI.EXE;1
256 blocks 7-01-2005 00:54:38 /UP-DIR/ 10-08-2004 02:53:39	256 blocks 7-01-2005 00:54:38	/UP-DIR/ 10-08-2004 02:53:39

As you see VTfm file bar highlights the new version of the file VTFM.C i.e. VTFM.C;516.

You can also edit the "EDIT" window line to create a new text file

SYS\$SYSDEUICE: [UOUA.DECC.UTFM.A]*.*;* FSPEC_PT.ALPHA_MAR;1 FSPEC_PT.IA64_MAR;1 FSPEC_PT.UAX_MAR;1 UTFM.C;516 UTFM.C;515 UTFM.C;514 ED	SYS\$SYSDEUICE:[UOUA.INFO-ZIP]*.*;* UNZIP.EXE;1 ZIP.EXE;1 ZIPCLOAK.EXE;1 ZIPNOTE.EXE;1 ZIPSPLIT.EXE;1 ZIP_CLI.EXE;1 IT
UTFM.C;508 UTFM.C;507 UTFM.C;506 UTFM.C;505	
256 blocks 7-01-2005 00:54:38	/UP-DIR/ 10-08-2004 02:53:39
<mark>(VTfm)INFORT::VOVA></mark> 11 <mark>GotoVMS 12</mark> GotoDir 13 <mark>View 14</mark> Edit 15 <mark>Copy</mark>	<mark>16</mark> RenMov <mark> 17</mark> MkDir <mark>18</mark> Delete <mark>19</mark> FKey 20Quit

After exit from TPU editor with creation of file VTfm file bar also *highlights the new* file NOTES.TXT;1

SYS\$SYSDEUICE: [UOUA.DECC.UTFM.A]*.*;* FSPEC_PT.ALPHA_MAR;1 FSPEC_PT.IA64_MAR;1 FSPEC_PT.UAX_MAR;1 NOTES.TXT;1 UTFM.C;516 UTFM.C;515 UTFM.C;513 UTFM.C;512 UTFM.C;511 UTFM.C;510 UTFM.C;509 UTFM.C;508 UTFM.C;506 UTFM.C;505	 UNZIP.EXE;1 ZIP.EXE;1 ZIPCLOAK.EXE;1 ZIPNOTE.EXE;1 ZIPSPLIT.EXE;1 ZIP_CLI.EXE;1
1 block 7-01-2005 01:58:25	/UP-DIR/ 10-08-2004 02:53:39

If you press $\langle F14 \rangle$ key when the current file is a directory then "EDIT" window line will be empty and you can input some file specification

SYS\$SYSDEUICE:[UOU /A.DIR;1 /B.DIR;1 /SRC.DIR;1 FSPEC_PT.OBJ;1 README.TXT;26 SAUE_UTFM.C;5	A.DECC.UTFM	*.*;* ED	SYS\$SYSDEUICE:[U UNZIP.EXE;1 ZIP.EXE;1 ZIPCLOAK.EXE;1 ZIPNOTE.EXE;1 ZIPSPLIT.EXE;1 ZIP_CLI.EXE;1 IT	JVA.INFO-ZIP]	*.*;*
/SUB-DIR/	1-01-2005	08:19:34	/UP-DIR/	10-08-2004	02:53:39
L (UTfm)INFORT::UOUA> 11 <mark>GotoUMS</mark> 12 <mark>GotoDir</mark>		dit <mark>15</mark> Copy	16 <mark>RenMov 17</mark> MkDir	18 <mark>Delete</mark> 19Fl	(ey <mark>20</mark> Quit

3.9 Find <Find> (filtering files in panels)

You can filter files in panel by *wildcard mask*. For that press *<Find>* key and you will see "FIND" window with *current* panel filtering wildcard mask

	SYS\$SYSDEUICE: [UOUA.INFO-ZIP]*.*;* UNZIP.EXE;1 ZIP.EXE;1 ZIPCLOAK.EXE;1 ZIPNOTE.EXE;1 ZIPSPLIT.EXE;1 ZIP_CLI.EXE;1 ND
DTSS\$ERROR.LOG;105 DTSS\$ERROR.LOG;104 DTSS\$ERROR.LOG;103 DTSS\$ERROR.LOG;102 DTSS\$ERROR.LOG;101 DTSS\$ERROR.LOG;100 /SUB-DIR/ 25-12-2003 23:59:53	/UP-DIR/ 10-08-2004 02:53:39
L (VTfm)INFORT::VOVA> 11 <mark>GotoVMS 12</mark> GotoDir 13 <mark>View 14</mark> Edit 15Copy	16 <mark>RenMov 17</mark> MkDir 18 <mark>Delete 19</mark> FKey 20 <mark>Quit</mark>

Edit "FIND" window line as you wish. For example, input such wildcard mask (for cancel Find operation press VTfm *escape* <*KP0*> *key*)

DTSS\$ERROR.LOG; 105 DTSS\$ERROR.LOG; 104 DTSS\$ERROR.LOG; 103 DTSS\$ERROR.LOG; 102 PTSS\$ERPOR.LOG; 102	SYS\$SYSROOT: [SYSMGR]*.*;* /NETSCAPE.DIR;1 ACCOUNTNG.DAT;1 CLUE\$HISTORY.DATA;1 CLUE\$LAST_INFORT.LIS;1 DCE_OUT0000011B.TMP;1 DCE_OUT0000011C.TMP;1 DECNET_REGISTER_IMPORT_FILE_INFORT.TX FI	SYS\$SYSDEUICE: [UOUA.INFO-ZIP]*.*;* UNZIP.EXE;1 ZIP.EXE;1 ZIPCLOAK.EXE;1 ZIPNOTE.EXE;1 ZIPSPLIT.EXE;1 ZIP_CLI.EXE;1 ND
DTSS\$ERROR.LOG;100	DTSS\$ERROR.LOG;104 DTSS\$ERROR.LOG;103 DTSS\$ERROR.LOG;102 DTSS\$ERROR.LOG;101 DTSS\$ERROR.LOG;100	/UP-DIR/ 10-08-2004 02:53:39

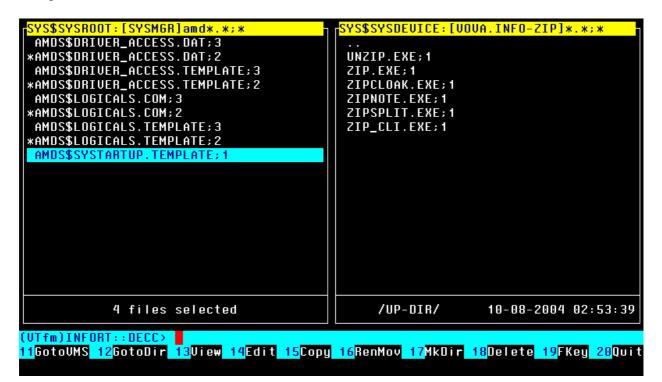
After pressing *<Return>* (*<Enter>*) key you will see the new panel content

AMDS\$DRIVER_ACCESS.TEMPLATE;3 AMDS\$DRIVER_ACCESS.TEMPLATE;2 AMDS\$LOGICALS.COM;3 AMDS\$LOGICALS.COM;2 AMDS\$LOGICALS.TEMPLATE;3 AMDS\$LOGICALS.TEMPLATE;2 AMDS\$SYSTARTUP.TEMPLATE;1	ZIP.EXE;1 ZIPCLOAK.EXE;1 ZIPNOTE.EXE;1 ZIPSPLIT.EXE;1 ZIP_CLI.EXE;1
9 blocks 16-12-1998 13:48:03	/UP-DIR/ 10-08-2004 02:53:39

Note that *panel header* shows the new wildcard mask.

3.10 Select <Ins>, <Sel> (selecting files in panels)

You can select files in panel for further operations (for example, Copy, Rename, Move or Delete). There are *manual* selection and selection by *wildcard mask*. For *manual* selection of current file simply press *<Ins>* key. The result of that is appearing of asterisk "*" symbol in the first position of the current file line



For wildcard mask selection press *<Sel>* key and you will see "SELECT" window with *current* panel selection wildcard mask

SYS\$SYSROOT: [SYSMGR] amd*.*;* AMDS\$DRIUER_ACCESS.DAT;3 *AMDS\$DRIUER_ACCESS.DAT;2 AMDS\$DRIUER_ACCESS.TEMPLATE;3 *AMDS\$DRIUER_ACCESS.TEMPLATE;2 AMDS\$LOGICALS.COM;3 *AMDS\$LOGICALS.COM;2 AMDS\$LOGICALS.TEMPLATE;3	SYS\$SYSDEUICE: [UOUA.INFO-ZIP]*.*;* UNZIP.EXE;1 ZIP.EXE;1 ZIPCLOAK.EXE;1 ZIPNOTE.EXE;1 ZIPSPLIT.EXE;1 ZIP_CLI.EXE;1 LECT
<mark>2</mark> .*;*	
4 files selected	/UP-DIR/ 10-08-2004 02:53:39
(VTfm)INFORT::DECC> 11 <mark>GotoUMS</mark> 12 <mark>GotoDir 13</mark> View 14 <mark>Edit 15</mark> Cop	y <mark>16</mark> RenMov 17 <mark>MkDir 18</mark> Delete 19 <mark>FKey 20</mark> Quit

Edit "SELECT" window line as you wish. For example, input such wildcard mask (for cancel Select operation press VTfm *escape* <*KP0*> *key*)

SYS\$SYSROOT: [SYSMGR]amd*.*;* AMDS\$DRIVER_ACCESS.DAT;3 *AMDS\$DRIVER_ACCESS.DAT;2 AMDS\$DRIVER_ACCESS.TEMPLATE;3 *AMDS\$DRIVER_ACCESS.TEMPLATE;2 AMDS\$LOGICALS.COM;3 *AMDS\$LOGICALS.COM;2 AMDS\$LOGICALS.TEMPLATE;3	SYS\$SYSDEUICE: [UOUA.INFO-ZIP]*.*;* UNZIP.EXE; 1 ZIP.EXE; 1 ZIPCLOAK.EXE; 1 ZIPNOTE.EXE; 1 ZIPSPLIT.EXE; 1 ZIPSPLIT.EXE; 1 LECT
*.*L <mark>*</mark> ;*	
4 files selected	/UP-DIR/ 10-08-2004 02:53:39
(VTfm)INFORT::DECC> 11 <mark>GotoVMS</mark> 12 <mark>GotoDir 13</mark> View 14 <mark>Edit 15</mark> Cop	<mark>y 16</mark> RenMov 17 <mark>MkDir 18</mark> Delete 19 <mark>FKey 20</mark> Quit

After pressing <*Return*> (<*Enter*>) key you will see the following screen

SYS\$SYSRODT: [SYSMGR]amd*.*;* AMDS\$DRIUER_ACCESS.DAT;3 *AMDS\$DRIUER_ACCESS.DAT;2 *AMDS\$DRIUER_ACCESS.TEMPLATE;3 *AMDS\$DRIUER_ACCESS.TEMPLATE;2 AMDS\$LOGICALS.COM;3 *AMDS\$LOGICALS.COM;2 *AMDS\$LOGICALS.TEMPLATE;3 *AMDS\$LOGICALS.TEMPLATE;3 *AMDS\$LOGICALS.TEMPLATE;3 *AMDS\$LOGICALS.TEMPLATE;3 *AMDS\$LOGICALS.TEMPLATE;1	SYS\$SYSDEUICE:[UOUA.INFO-ZIP]*.*;* UNZIP.EXE;1 ZIP.EXE;1 ZIPCLOAK.EXE;1 ZIPNOTE.EXE;1 ZIPSPLIT.EXE;1 ZIP_CLI.EXE;1
7 files selected (VTfm)INFORT::DECC> 11GotoUMS 12GotoDir 13View 14Edit 15Copy	/UP-DIR/ 10-08-2004 02:53:39

3.11 UnSelect <Ins>, <Rem> (unselecting files in panels)

The UnSelect operation is similar to Select one. Also there are *manual* unselection and unselection by *wildcard mask*. For *manual* unselection of the current *previously selected* file simply press <Ins> key. The result of that is *disappearing* of asterisk "*" symbol in the first position of the current file line

	SYS\$SYSROOT: [SYSMGR]amd*.*;* AMDS\$DRIUER_ACCESS.DAT;3 *AMDS\$DRIUER_ACCESS.DAT;2 AMDS\$DRIUER_ACCESS.TEMPLATE;3 *AMDS\$DRIUER_ACCESS.TEMPLATE;2 AMDS\$LOGICALS.COM;3 *AMDS\$LOGICALS.COM;2 AMDS\$LOGICALS.TEMPLATE;3 *AMDS\$LOGICALS.TEMPLATE;3 *AMDS\$SYSTARTUP.TEMPLATE;1	SYS\$SYSDEUICE: [UOUA.INFO-ZIP]*.*;* UNZIP.EXE;1 ZIP.EXE;1 ZIPCLOAK.EXE;1 ZIPNOTE.EXE;1 ZIPSPLIT.EXE;1 ZIP_CLI.EXE;1
5 files selected /UP-DIR/ 10-08-2004 02:53:39	5 files selected	/UP-DIR/ 10-08-2004 02:53:39

For wildcard mask unselection press *<Rem>* key and you will see "UNSELECT" window with *current* panel selection wildcard mask

SYS\$SYSROOT: [SYSMGR]amd*.*;* AMDS\$DRIVER_ACCESS.DAT;3 *AMDS\$DRIVER_ACCESS.DAT;2 AMDS\$DRIVER_ACCESS.TEMPLATE;3 *AMDS\$DRIVER_ACCESS.TEMPLATE;2 AMDS\$LOGICALS.COM;3 *AMDS\$LOGICALS.COM;2 AMDS\$LOGICALS.TEMPLATE;3	SYS\$SYSDEUICE: [UOUA.INFO-ZIP]*.*;* UNZIP.EXE; 1 ZIP.EXE; 1 ZIPCLOAK.EXE; 1 ZIPNOTE.EXE; 1 ZIPSPLIT.EXE; 1 ZIP_CLI.EXE; 1
	ELECT
<mark>☆</mark> .*L*;*	
5 files selected	/UP-DIR/ 10-08-2004 02:53:39
(VTfm)INFORT::DECC> 11 <mark>GotoUMS</mark> 12 <mark>GotoDir 13</mark> View 14 <mark>Edit 15</mark> Cop	y <mark>16</mark> RenMov <mark>17</mark> MkDir <mark>18</mark> Delete <mark>19</mark> FKey 20Quit

Edit "UNSELECT" window line as you wish. For example, input such wildcard mask (for cancel UnSelect operation press VTfm *escape* <*KP0*> *key*)

SYS\$SYSROOT: [SYSMGR]amd*.*;* AMDS\$DRIVER_ACCESS.DAT;3 *AMDS\$DRIVER_ACCESS.DAT;2 AMDS\$DRIVER_ACCESS.TEMPLATE;3 *AMDS\$DRIVER_ACCESS.TEMPLATE;2 AMDS\$LOGICALS.COM;3 *AMDS\$LOGICALS.COM;2 AMDS\$LOGICALS.TEMPLATE;3	SYS\$SYSDEUICE: [UOUA.INFO-ZIP]*.*;* UNZIP.EXE; 1 ZIP.EXE; 1 ZIPCLOAK.EXE; 1 ZIPNOTE.EXE; 1 ZIPSPLIT.EXE; 1 ZIP_CLI.EXE; 1 LECT
.;2 <mark>_</mark>	
5 files selected	/UP-DIR/ 10-08-2004 02:53:39
(<mark>UTfm)INFORT::DECC> 11</mark> GotoUMS <mark> 12</mark> GotoDir <mark> 13</mark> View <mark> 14</mark> Edit <mark> 15</mark> Copy	<mark>16</mark> RenMov 17 <mark>MkDir 18</mark> Delete 19 <mark>FKey 20</mark> Quit

After pressing <*Return*> (<*Enter*>) key you will see the following screen

SYS\$SYSROOT:[SYSMGR]amd*.*;*	SYS\$SYSDEUICE:[UOUA.INFO-ZIP]*.*;*
AMDS\$DRIVER_ACCESS.DAT;3	
AMDS\$DRIVER_ACCESS.DAT;2	UNZIP.EXE;1
AMDS\$DRIVER_ACCESS.TEMPLATE;3	ZIP.EXE;1
AMDS\$DRIVER_ACCESS.TEMPLATE;2	ZIPCLOAK.EXE;1
AMDS\$LOGICALS.COM;3	ZIPNOTE.EXE;1
AMDS\$LOGICALS.COM;2	ZIPSPLIT.EXE;1
AMDS\$LOGICALS.TEMPLATE;3	ZIP_CLI.EXE;1
AMDS\$LOGICALS.TEMPLATE;2	
*AMDS\$SYSTARTUP.TEMPLATE;1	
1 file selected	/UP-DIR/ 10-08-2004 02:53:39
(UTfm)INFORT::DECC>	
	16 <mark>RenMov 17</mark> MkDir 18 <mark>Delete 19</mark> FKey 20Quit
The second strand stran	Tonennov Trankutr Topetete Tarkey Zuwit

3.12 Copy <Help> (copy a current or selected files)

With the Copy operation you can copy directories with their contents (*directory trees*), individual files or both. If there are *selected* directories or files then VTfm copies these, but if there are *no selected* directories or files then VTfm copies *current* one. On the next screen there are one selected directory and one individual file

SYS\$SYSDEUICE: [UOUA.DECC.UTFM]*.*;* */A.DIR;1 /B.DIR;1 /SRC.DIR;1 FSPEC_PT.OBJ;1 README.TXT;26 SAUE_UTFM.C;5 *SP2.EXE;3 UTED.TPU;1 UTFM.COM;15 UTFM.UAX_EXE;285	DUBO:[UOUA]*.*;* No files found
95 blocks 22-12-2004 15:58:08	/ROOT-DIR/
(VTfm)INFORT::DECC> <mark>-</mark> 11 <mark>GotoVMS 12</mark> GotoDir 13 <mark>View 14</mark> Edit 15 <mark>Copy</mark>	<mark>, 16</mark> RenMov <mark>, 17</mark> MkDir <mark>, 18</mark> Delete <mark>, 19</mark> FKey <mark>, 20</mark> Quit

When you press *<Help>* key you will see the following "COPY" window (for cancel Copy operation press VTfm *escape <KP0> key*)

SYS\$SYSDEUICE: [UOUA.DECC.UTFM]*.*;* */A.DIR;1 /B.DIR;1 /SRC.DIR;1 FSPEC_PT.OBJ;1 README.TXT;26 SAUE_UTFM.C;5 UB0: [UOUA]*.*;*	DUBO:[UOUA]*.*;* No files found TED FILES TO
95 blocks 22-12-2004 15:58:08	/ROOT-DIR/
<mark>(VTfm)INFORT::DECC></mark> 11 <mark>GotoUMS 12</mark> GotoDir 13 <mark>View 14</mark> Edit 15 <mark>Copy</mark>	<mark>16</mark> RenMov <mark> 17</mark> MkDir <mark>18</mark> Delete <mark>19</mark> FKey 20Quit

By default VTfm assumes that copy operation will be to the directory in the opposite panel. But you can edit "COPY" window line as you wish. For example, you can input

SYS\$SYSDEUICE: [UOUA.DECC.UTFM]*.*;* */A.DIR; 1 /B.DIR; 1 /SRC.DIR; 1 FSPEC_PT.OBJ; 1 README.TXT; 26 SAUE_UTFM.C; 5 COPY 2 SELEC sys\$manager: 8.*;*	DUBO:[UOUA]*.*;* No files found TED FILES TO
95 blocks 22-12-2004 15:58:08	/ROOT-DIR/
(<mark>UTfm)INFORT::DECC></mark> 11 <mark>GotoUMS 12</mark> GotoDir 13 <mark>View 14</mark> Edit 15 <mark>Copy</mark>	16 <mark>RenMov 17</mark> MkDir 18Delete 19FKey 20Quit

But return to the previous screen

SYS\$SYSDEUICE: [UOUA.DECC.UTFM]*.*;* */A.DIR; 1 /B.DIR; 1 /SRC.DIR; 1 FSPEC_PT.OBJ; 1 README.TXT; 26 SAUE_UTFM.C; 5 UB0: [UOUA]*.*;*		DUBO:[UOUA]*.*;* No files found ED FILES TO
95 blocks 22-12-2004 15:58	08	/ROOT-DIR/
(VTfm)INFORT::DECC> 11GotoVMS <mark>_12</mark> GotoDir <mark>_13</mark> View <mark>_14</mark> Edit <mark>_15</mark> (opy	<mark>16</mark> RenMov <mark> 17</mark> MkDir <mark>18</mark> Delete <mark>19</mark> FKey 20Quit

To execute the Copy operation press *<Return>* (*<Enter>*) key. VTfm shows the "COPYING…" window with specifications of copying files and copy progress bar

SYS\$SYSDEUICE: [UOUA.DECC.UTFM]*.*;* */A.DIR; 1 /B.DIR; 1 /SRC.DIR; 1 FSPEC_PT.OBJ; 1 README.TXT; 26 SAUE_UTFM.C; 5 COPYI SP2.EXE; 3 %8%%%%8%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	DUBO:[UOUA]*.*;* No files found NG ***
95 blocks 22-12-2004 15:58:08	/ROOT-DIR/
(VTfm)INFORT::DECC> <mark>-</mark> 11GotoVMS <mark> 12</mark> GotoDir 13View 14 <mark>Edit 15</mark> Copy	<mark>16</mark> RenMov 17 <mark>MkDir 18</mark> Delete 19 <mark>FKey 20</mark> Quit

As a result of Copy operation you see such screen

SYS\$SYSDEUICE: [UOUA.DECC.UTFM]*.*;* /A.DIR;1 /B.DIR;1 /SRC.DIR;1 FSPEC_PT.OBJ;1 README.TXT;26 SAUE_UTFM.C;5 SP2.EXE;3 UTED.TPU;1 UTFM.COM;15 UTFM.UAX_EXE;285	DUB0:[UOUA]*.*;* /A.DIR:1 SP2.EXE;3	
95 blocks 22-12-2004 15:58:08 (VTfm)INFORT::DECC> 11GotoUMS 12GotoDir 13View 14Edit 15Copy	/SUB-DIR/	

3.13 RenMov <Do> (rename/move a current or selected files)

The RenMov operation is similar to Copy one. The only difference is that *source files will be deleted*. Move to directory file B.DIR;1, enter into subdirectory B by pressing *<Return>* (*<Enter>*) key and switch to right panel by pressing *<*Tab> key. Then select all files in the panel

r <mark>SYS\$SYSDEVICE:[VOVA</mark> No files found	.DECC.UTFM.	.B]*.*;*	T <mark>DUBO:[UOU</mark> */A.DIR;1			
			*SP2.EXE;			
/UP-DIR/	1-01-2005	08:44:17	532750	blocks	7-01-2005	17:55:42
(VTfm)INFORT::DECC> 11 <mark>GotoVMS</mark> 12 <mark>GotoDir</mark>	13 <mark>View 14</mark> Ec	lit <mark>15</mark> Copy	16 <mark>RenMov</mark>	17 <mark>MkDir</mark>	<mark>18</mark> Delete 19 <mark>FK</mark>	(ey <mark>20</mark> Quit

To RenMov selected files to the left panel press *<Do>* key. Now you see the "RENAME OR MOVE" window (for cancel RenMov operation press VTfm *escape <KP0> key*)

SYS\$SYSDEUICE:[UOUA.DECC.UTFM.B]*.*;*	DUBO:[VOVA]*.*;*
No files found	*/A.DIR;1
	*SP2.EXE;3
RENAME UK MUVE 2	SELECTED FILES TO
SYS\$SYSDEUICE: [UOUA.DECC.UTFM.B]*.*;*	4
/UP-DIR/ 1-01-2005 08:44:17	532750 blocks 7-01-2005 17:55:42
(VTfm)INFORT::DECC>	
<mark>11</mark> GotoVMS <mark>12</mark> GotoDir <mark>13</mark> View <mark>14</mark> Edit <mark>15</mark> Copų	<mark>, 16</mark> RenMov <mark>, 17</mark> MkDir <mark>, 18</mark> Delete <mark>, 19</mark> FKey <mark>, 20</mark> Qui [,]

To execute the RenMov operation press *<Return>* (*<Enter>*) key. VTfm shows the "RENAMING OR MOVING..." window with specifications of renaming/moving files

r <mark>SYS\$SYSDEUICE:[UOUA</mark> No files found			T <mark>DUBO:[VOU(</mark> */A.DIR;1 <mark>*SP2.EXE;</mark>	3		
SP2.EXE;3	HEN	HMING UK	MOUING			

/UP-DIR/	1-01-2005 0	8:44:17	532750	blocks	7-01-2005	17:55:42
(UTfm)INFORT::DECC>			002100	Brocks		
11 <mark>GotoUMS</mark> 12GotoDir		t <mark>15</mark> Copy	<mark>16</mark> RenMov	17 <mark>MkDir</mark>	<mark>18</mark> Delete <mark> 19</mark> FK	(ey <mark>20</mark> Qui1

Note

If source and destination *physical* disk drives are *different* then VTfm rename/move files via copying them. This is true for our example.

As a result of RenMov operation you see such screen

SYS\$SYSDEUICE:[UOUA.DECC.UTFM.B]*.*;*	DUBO:[VOVA]*.*;*
	No files found
/A.DIR;1 SP2.EXE;3	
JFZ. EAC, J	
/UP-DIR/ 1-01-2005 08:44:17	/ROOT-DIR/
	, 1001 - 5111,
(VTfm)INFORT::DECC>	
<mark>11</mark> 6otoVMS <mark> 12</mark> 6otoVir <mark>13</mark> View 14Edit 15Copi	<mark>, 16</mark> RenMov <mark>, 17</mark> MkDir <mark>, 18</mark> Delete <mark>, 19</mark> FKey <mark>, 20</mark> Quit

3.14 Delete <F18> (delete a current or selected files)

With the Delete operation you can delete directories with their contents (*directory trees*), individual files or both. If there are *selected* directories or files then VTfm deletes these, but if there are *no selected* directories or files then VTfm deletes *current* one. Switch to left panel by pressing <Tab> key and select all files in the panel

SYS\$SYSDEUICE: [UOU */A.DIR; 1 *SP2.EXE; 3	A. DECC. UTFM. B]*. *		<mark>:[UOUA]*.*;*</mark> files found		
532750 blocks	7-01-2005 18:35	5:00	/RC	IOT-DIR/	
(VTfm)INFORT::DECC> 11 <mark>GotoUMS</mark> 12 <mark>GotoDir</mark>		Copy <mark>16</mark> Re	nMov <mark>17</mark> MkDir	18 <mark>Delete</mark> 19	FKey <mark>20</mark> Quit

To delete selected files press $\langle F18 \rangle$ key. You will see the "DELETE" window in which you can select "Okey" item by pressing *Left/Right* arrow, *Up/Down* arrow, $\langle Tab \rangle$ or $\langle Backspace \rangle$ keys (for cancel Delete operation press VTfm *escape* $\langle KP0 \rangle$ key)

	DUBO:[UOUA]*.*;* No files found ETE will be DELETED
Cancel	Okay
532750 blocks 7-01-2005 18:35:00	/ROOT-DIR/
(VTfm)INFORT::DECC> <mark>-</mark> 11 <mark>GotoVMS 12GotoDir 13</mark> View 14 <mark>Edit 15</mark> Copu	<mark>j 16</mark> RenMov 17 <mark>MkDir 18</mark> Delete 19 <mark>FKey 20</mark> Qui [:]

Now press *<Return>* (*<Enter>*) key. VTfm shows "DELETING..." window with specifications of deleting files

SYS\$SYSDEUICE:[UOUA.DECC.UTFM.B] */A.DIR;1 *SP2.EXE;3	*.*;*	r <mark>DUBO:[UOUA]*.*;*</mark> No files found
	- DELETÍ	۹G
[.A] UTFM.C;509		
532750 blocks 7-01-2005 20):31:33	/ROOT-DIR/
(VTfm)INFORT::DECC> 11GotoVMS 12GotoDir 13 <mark>View 14</mark> Edit	: <mark>15</mark> Copy	<mark>16</mark> RenMov 17 <mark>MkDir 18</mark> Delete 19 <mark>FKey 20</mark> Qui

When all files deleted you will see such screen

SYS\$SYSDEVICE:[UOVA.DEC	C.UTFM.B]*.*;*	DUB0:[UOUA]*.*;*	
No files found		No files found	
/UP-DIR/ 1-0	1-2005 08:44:17	/ROOT-DIR/	
(UTfm)INFORT::DECC> 11GotoUMS 12GotoDir 13Ui	ew 14Edit 15Copu	16RenMov 17MkDir 18Delete 19	FKey 20Quit

3.15 MkDir <F17> (make a subdirectory)

For make (create) a new *subdirectory* simply press $\langle F17 \rangle$ key. VTfm shows the "MAKE A DIRECTORY" window

SYS\$SYSDEUICE:[UOU No files found	A.DECC.UTFM.		DUBO:[UOUA]*.*;* No files found DIRECTORY	
/UP-DIR/	1-01-2005	08:44:17	/ROOT-DIR/	
(<mark>VTfm)INFORT::DECC></mark> 11 <mark>GotoUMS<mark>12</mark>GotoDir</mark>	13 <mark>View 14</mark> Ec	dit <mark>15</mark> Copy	y <mark>16</mark> RenMov 17 <mark>MkDir 18</mark> Delete 19 <mark>F</mark> l	Key <mark>20</mark> Quit

Input *name* of the new subdirectory (for cancel MkDir operation press VTfm *escape* <*KP0*> *key*)

SYS\$SYSDEVICE:[VOV No files found	A.DECC.UTFM.B]*.*;*	DUBO:[UOUA]*.*;* No files found IRECTORY
NEW_DIR		
/UP-DIR/	1-01-2005 08:44:17	/ROOT-DIR/
(<mark>VTfm)INFORT::DECC></mark> 1 <mark>GotoVMS<mark>12</mark>GotoDir</mark>	<mark>13</mark> View 14 <mark>Edit 15</mark> Copy	<mark>16</mark> RenMov 17 <mark>MkDir 18</mark> Delete 19FKey 20Qui

To make a subdirectory NEW_DIR press <*Return*> (<*Enter*>) key and you will see such screen (note that VTfm file bar *highlights the new subdirectory* file NEW_DIR.DIR;1)

SYS\$SYSDEUICE:[UOU /NEW_DIR.DIR;1	A.DECC.UTFM.B]*.*;*	DUBO:[VOV No files		
/SUB-DIR/	7-01-2005 20:48:1	0	/ROOT-DIR/	
(VTfm)INFORT::DECC> 11 <mark>GotoVMS</mark> 12 <mark>GotoDir</mark>		py <mark>16</mark> RenMov	17 <mark>MkDir 18</mark> Delete	19 <mark>FKey 20</mark> Quit

3.16 Quit <F20> (quit VTfm)

For quit VTfm press $\langle F20 \rangle$ key. You will see the "QUIT" window

/SUB-DIR/ 7-01-2005 20:48:10 /R00T-DIR/	SYS\$SYSDEUICE:[UOUA.DECC.UTFM.B]*.*;* /NEW_DIR.DIR;1 DUBO:[UOUA]*.*;* No files found QUIT Do you really want to quit the UTfm session? Yes No		No files found CT quit the VTfm session?
	/SUB-DIR/		/ROOT-DIR/

Select item you wish (i.e. "Yes" or "No") by pressing *Left/Right* arrow, *Up/Down* arrow, *<Tab>* or *<Backspace>* keys and press *<Return>* (*<Enter>*) key (for cancel Quit operation press VTfm *escape <KP0> key*).

3.17 Execute COM and EXE files

As in the Norton Commander you can execute COM or EXE file by moving to it

SYS\$SYSDEUICE: [U004 /A.DIR;1 /B.DIR;1 /SRC.DIR;1 FSPEC_PT.OBJ;1 README.TXT;26 SAUE_UTFM.C;5 SP2.EXE;3 UTED.TPU;1 UTFM.COM;15 UTFM.UAX_EXE;285	A.DECC.UTFM]*.*;*	DUBO:[UOUA]*.*;* No files found
1 block	22-12-2004 15:58:08	/ROOT-DIR/
<mark>(VTfm)INFORT::DECC></mark> 11 <mark>GotoVMS</mark> 12 <mark>GotoDir</mark>	13 <mark>View 14</mark> Edit <mark> 15</mark> Copų	<mark>16</mark> RenMov <mark> 17</mark> MkDir <mark>18</mark> Delete <mark>19</mark> FKey 20Qui ⁻

Now simply press *<Return>* (*<Enter>*) key. VTfm creates a subprocess in which COM file will be executed (this technique is also true for every *.*COM;* or *.*EXE;* file)



Note

If you receive a message about exceeded quota then increase Pgflquo quota for your account.

3.18 Working with command line

You can use VTfm command line as ordinary OpenVMS one. For example, input the following OpenVMS "PURGE" command

SYS\$SYSDEVICE:[VOVA.DECC.VTFM.A]*.*;*	r <mark>DUBO:[VOVA]*.*;* </mark>
FSPEC_PT.ALPHA_MAR;1	
FSPEC_PT.IA64_MAR;1	
FSPEC_PT.UAX_MAR;1	
NOTES.TXT; 1	
UTFM.C;516	
UTFM.C;515	
UTFM.C;514	
UTFM.C:513	
UTFM.C;512 UTFM.C;511	
UTFM.C;510	
UTFM.C;509	
UTFM.C;508	
UTFM.C;507	
UTFM.C;506	
UTFM.C;505	
/UP-DIR/ 1-01-2005 08:19:34	/ROOT-DIR/
(VTfm)INFORT::DECC> pu/ke:3 11GotoVMS 12GotoDir 13View 14Edit 15Copy	<mark>16</mark> RenMov <mark> 17</mark> MkDir 18 <mark>Delete 19</mark> FKey 20 <mark>Quit</mark>

For execute this command press *<Return>* (*<Enter>*) key. VTfm creates a subprocess in which this command will be executed



Note

If you receive a message about exceeded quota then increase Pgflquo quota for your account.

After pressing some key you will see such screen

SYS\$SYSDEUICE: [UOUA FSPEC_PT.ALPHA_MAR FSPEC_PT.IA64_MAR; FSPEC_PT.UAX_MAR; 1 NOTES.TXT; 1 UTFM.C; 516 UTFM.C; 515 UTFM.C; 514	; 1 1	DUBO:[UOUA]*.*;* No files found	
/UP-DIR/	1-01-2005 08:19:34	/ROOT-DIR/	
(VTfm)INFORT::DECC> 11GotoVMS 12GotoDir	13 <mark>View 14</mark> Edit 15 <mark>Copy</mark>	y <mark>16</mark> RenMov 17MkDir 18 <mark>Delete 19</mark> FKey 20 <mark>Q</mark>	uit

Now press *<Return>* (*<Enter>*) key for return into up-subdirectory A and move to the file SP2.EXE;3

SYS\$SYSDEUICE: [UOUA.DECC.UTFM]*.*;* /A.DIR;1 /B.DIR;1 /SRC.DIR;1 FSPEC_PT.OBJ;1 FSPEC_PT.UAX_OBJ;1 README.TXT;26 SAUE_UTFM.C;5 SP2.EXE;3 UTED.TPU;1 UTFM.COM;15 UTFM.UAX_EXE;285	DUBO:[VOVA]*.*;* No files found
532750 blocks 7-11-2004 00:27:36	/ROOT-DIR/
(VTfm)INFORT::DECC> 11 <mark>GotoUMS</mark> 12 <mark>GotoDir 13</mark> View 14 <mark>Edit 15</mark> Copy	<mark>16</mark> RenMov 17 <mark>MkDir 18</mark> Delete 19 <mark>FKey 20</mark> Quit

Input the following OpenVMS "DIR" command

<pre>SYS\$SYSDEUICE: [UOUA.DECC.UTFM]*.*;* /A.DIR;1 /B.DIR;1 /SRC.DIR;1 FSPEC_PT.OBJ;1 FSPEC_PT.UAX_OBJ;1 README.TXT;26 SAUE_UTFM.C;5 SP2.EXE;3 UTED.TPU;1 UTFM.COM;15 UTFM.UAX_EXE;285</pre>	T <mark>DUB0:[UOUA]*.*;*</mark> No files found
532750 blocks 7-11-2004 00:27:36	/ROOT-DIR/
(VTfm)INFORT::DECC> dir/fu 11 <mark>GotoVMS</mark> 12 <mark>GotoDir 13</mark> View 14 <mark>Edit 15</mark> Copy	<mark>16</mark> RenMov <mark> 17</mark> MkDir <mark> 18</mark> Delete <mark>19</mark> FKey 20Quit

If you press D (Directory) key now then VTfm *insert to the current position* of the command line the *directory specification of current panel*

SYS\$SYSDEUICE: [UOUA.DECC.UTFM]*.*;* /A.DIR;1 /B.DIR;1 /SRC.DIR;1 FSPEC_PT.OBJ;1 FSPEC_PT.UAX_OBJ;1 README.TXT;26 SAUE_UTFM.C;5 SP2.EXE;3 UTED.TPU;1 UTFM.COM;15 UTFM.UAX_EXE;285	DUBO:[UOUA]*.*;* No files found
532750 blocks 7-11-2004 00:27:36	/ROOT-DIR/
(VTfm)INFORT::DECC> dir/fu SYS\$SYSDEVICE 11 <mark>GotoUMS</mark> 12 <mark>GotoDir 13</mark> View 14 <mark>Edit 15</mark> Copy	:[VOVA.DECC.UTFM] 16RenMov 17MkDir 18 <mark>Delete 19</mark> FKey 20Quit

Moreover, by pressing F (File) key you can *insert to the current position* of the command line the *file specification of current file* (with trailing space " " symbol)

SYS\$SYSDEUICE: [UOUA.DECC.UTFM]*.*;* /A.DIR;1 /B.DIR;1 /SRC.DIR;1 FSPEC_PT.OBJ;1 FSPEC_PT.UAX_OBJ;1 README.TXT;26 SAUE_UTFM.C;5 SP2.EXE;3 UTED.TPU;1 UTFM.COM;15 UTFM.UAX_EXE;285	DUBO:[UOUA]*.*;* No files found
532750 blocks 7-11-2004 00:27:36	/ROOT-DIR/
(VTfm)INFORT::DECC> dir/fu SYS\$SYSDEVICE 11GotoVMS <mark> 12</mark> GotoDir 13 <mark>View 14</mark> Edit 15 <mark>Copy</mark>	:[VOVA.DECC.UTFM]SP2.EXE;3 16 <mark>RenMov</mark> 17MkDir 18 <mark>Delete 19</mark> FKey 20Quit

For execute this command press *<Return>* (*<Enter>*) key. VTfm creates a subprocess in which this command will be executed

SP2.EXE;3	File ID:	(5590,13,0)
Size: 532750/5	32755 Owner:	[VERSH, VOVA]
Created: 7-NOV-20	04 00:27:36.95	
Revised: 3-JAN-20	05 23:42:33.65 (2)	
Expires: <none spe<="" td=""><td>cified></td><td></td></none>	cified>	
Backup: <no backu<="" td=""><td>p recorded></td><td></td></no>	p recorded>	
Effective: <none spe<="" td=""><td>cified></td><td></td></none>	cified>	
Recording: <none spe<="" td=""><td>cified></td><td></td></none>	cified>	
File organization:	Sequential	
Shelved state:	Online	
Caching attribute:	Writethrough	
File attributes:	Allocation: 532755	, Extend: O, Global buffer count: O
	No version limit	
Record format:	Fixed length 512 b	yte records
Record attributes:	None	
RMS attributes:	None	
Journaling enabled:	None	
File protection:	System:RWED, Owner	:RWED, Group:RE, World:
Access Cntrl List:	None	
Client attributes:	None	
Total of 1 file, 532750/532755 blocks.		
Press any key		

Note

If you receive a message about exceeded quota then increase Pgflquo quota for your account.

After pressing some key you return to VTfm panels screen with empty command line

SYS\$SYSDEUICE: [UOUA.DECC.UTFM]*.*;* /A.DIR;1 /B.DIR;1 /SRC.DIR;1 FSPEC_PT.OBJ;1 FSPEC_PT.UAX_OBJ;1 README.TXT;26 SAUE_UTFM.C;5 SP2.EXE;3 UTED.TPU;1 UTFM.COM;15 UTFM.UAX_EXE;285	DUBO:[VOVA]*.*;* No files found
532750 blocks 7-11-2004 00:27:36	/ROOT-DIR/
(VTfm)INFORT::DECC> 11GotoVMS <mark> 12</mark> GotoDir 13View 14 <mark>Edit 15</mark> Copy	<mark>16</mark> RenMov <mark> 17</mark> MkDir <mark>18</mark> Delete <mark> 19</mark> FKey 20Quit

If you want to go to the previous "PURGE" command then twice press V (preVious command) key. You will see

SYS\$SYSDEUICE: [UOUA.DECC.UTFM]*.*;* /A.DIR;1 /B.DIR;1 /SRC.DIR;1 FSPEC_PT.OBJ;1 FSPEC_PT.UAX_OBJ;1 README.TXT;26 SAUE_UTFM.C;5 SP2.EXE;3 UTED.TPU;1 UTFM.COM;15 UTFM.UAX_EXE;285	DUBO:[UOUA]*.*;* No files found
532750 blocks 7-11-2004 00:27:36	/ROOT-DIR/
(VTfm)INFORT::DECC> <mark>p</mark> u/ke:3 11 <mark>GotoUMS 12</mark> GotoDir 13 <mark>View 14</mark> Edit 15 <mark>Copy</mark>	<mark>16</mark> RenMov <mark> 17</mark> MkDir <mark>18</mark> Delete 19 <mark>FKey 20</mark> Quit

But if you press ^N (Next command) key now then you go to "DIR" command

SYS\$SYSDEUICE: [UOUA.DECC.UTFM]*.*;* /A.DIR;1 /B.DIR;1 /SRC.DIR;1 FSPEC_PT.OBJ;1 FSPEC_PT.UAX_OBJ;1 README.TXT;26 SAUE_UTFM.C;5 SP2.EXE;3 UTED.TPU;1 UTFM.COM;15 UTFM.UAX_EXE;285	DUBO:[UOUA]*.*;* No files found
532750 blocks 7-11-2004 00:27:36	/ROOT-DIR/
(UTfm)INFORT::DECC> <mark>d</mark> ir/fu SYS\$SYSDEUICE 11 <mark>GotoUMS</mark> 12 <mark>GotoDir 13</mark> View 14 <mark>Edit 15</mark> Copy	:[UOUA.DECC.UTFM]SP2.EXE;3 16 <mark>RenMov</mark> 17 <mark>MkDir 18</mark> Delete 19 <mark>FKey 20</mark> Quit

3.19 Environment file

When exit VTfm creates environment file **SYS\$LOGIN:ENVIRONMENT.DAT** for storing the following information:

- ✓ directory panels orientation (left/right or top/bottom);
- ✓ current directory panel (left/right/top/bottom);
- ✓ file size measure (blocks or bytes);
- ✓ disk device and directory specification (for each panel);
- ✓ filtering wildcard mask (for each panel);
- ✓ selection wildcard mask (for each panel);
- \checkmark current file bar position (for each panel).

So, when you run VTfm again your last working environment will be restored! **Don't edit file SYS\$LOGIN:ENVIRONMENT.DAT**! But if any problems with this file simply delete it.

4. VTfm customizing

4.1 Edit some parameters in source code

You can modify the values of the following constants in VTfm source code

- MAX_COMM_QUA maximum number of command lines (def is 64),
- MAX_COMM_LEN maximum length of command line (def is 4096),
- MAX_DIR_FQUA maximum number of files in directory panel (def is 8192),
- REC_BUFF_SIZE I/O buffer size for file coping (def is 127 blocks)

To do this edit file VTFM.C and modify values in the following lines

- #define MAX_COMM_QUA 64
- #define MAX_COMM_LEN 4096
- #define MAX_DIR_FQUA 8192
- #define REC_BUFF_SIZE
 127

4.2 F1-F10 keys instead of F11-F20

The default VTfm operation keys for DEC VT-series terminals are F11-F20. But it is possible to use F1-F10 keys *on some keyboards* if run VTfm with "F1" argument:

\$ VTFM F1

For example, if you use PowerTerm terminal emulator then *uncheck* "Use Emulator Alt Keys" in the PowerTerm "Terminal Setup" window

Terminal Setup	X	
Emulation General Display Keyboard	Printer Tabs Colors Preferences	
Backspace Key Sends	Delete C Backspace	
🔽 Auto Repeat	Numpad Decimal Sends Comma	
🗂 Key Click	🔲 Use Emulator Alt Keys	
🔽 Warning Bell	🖵 Local Echo	
🔽 Margin Bell	🔲 Use VT Keyboard Mode	
Answerback Message PowerTerm		
Auto Answerback	Clear Conceal	
OK Cancel Defaults Help		

Remember that this VTfm feature is not guaranteed for hardware keyboards.

5. Development History

1991, July - First release 1.0 with name NCvtf.

- □ developed on VAX C 3.0;
- □ supports VT-terminal modes with only 24x80 rows/columns;
- □ uses EDT\$EDIT routine for view and edit;
- □ works only on VAXVMS.
- •
- .
- .

2004, August - Release 2.0-0 with name VTfm.

- \Box developed on DEC C v6.0;
- □ redesigned and reduced source code;
- □ supports VT-terminal modes with more then 24x80 rows/columns;
- □ uses TPU\$TPU routine for view and edit;
- works on VAX, Alpha and IA64 with OpenVMS.

Currently known restrictions:

- does not accept node specification in GotoDir, Edit, Copy and RenMov operations (use VTfm command line instead in this cases);
- does not translate disk device logicals in RenMov operation, so if, for example, logicals XXX: and YYY: point to the SAME physical disk device VTfm RenMov files via copy;
- does not Copy directory files with their content (make destination directory first and then Copy source directory content);
- does not RenMov directory files with their content to ANOTHER logical or physical disk device (make destination directory first and then RenMov source directory content);
- □ does not open any archive files (use correspondent utility in VTfm command line).

2004, October - Release 2.2-6

- □ Copy, RenMov and Delete DIRECTORY TREES;
- supports LOGICALs when GotoDir, Copy or RenMov (SYS\$LOGIN, SYS\$MANAGER, SYS\$COMMON, SYS\$COMMON:[SYSMGR] etc.);
- recognizes the same disk device with DIFFERENT logical names when RenMov, so if, for example, logicals XXX: and YYY: point to the SAME physical disk VTfm RenMov files WITHOUT copy;
- □ works on VAX, Alpha and IA64 with OpenVMS.

Currently known restrictions:

- supports only LOCAL or CLUSTERWIDE disk devices when GotoDir, Copy, RenMov or Delete (if need to use NODE specification use VTfm command line);
- □ does not support "*", "%", "?", "[.", ".]", "[-", ".-" and "..." in DIRECTORY specification when GotoDir, Copy or RenMov;
- □ does not support EXTENDED FILE SPECIFICATIONS on ODS-5 volumes;
- does not open any archive files (use correspondent utility in VTfm command line).

2004, October - Release 2.2-8

- some changes and additions of function keys when input and edit lines (see also 19FKey description):
 - ✓ ^P extract **P**revious command line (instead of ^E),
 - ✓ H cursor to beg of line,
 - \checkmark ^E cursor to end of line,
 - ✓ U delete chars from beg of line to current position;
- □ some minor bug fixes;
- works on VAX, Alpha and IA64 with OpenVMS.

Currently known restrictions:

- supports only LOCAL or CLUSTERWIDE disk devices when GotoDir, Copy, RenMov or Delete (if need to use NODE specification use VTfm command line);
- □ does not support "*", "%", "?", "[.", ".]", "[-", ".-" and "..." in DIRECTORY specification when GotoDir, Copy or RenMov;
- □ does not support EXTENDED FILE SPECIFICATIONS on ODS-5 volumes;
- □ does not open any archive files (use correspondent utility in VTfm command line).

2004, November - Release 2.2-9

- □ speed up Copy operation more than 3 times (127 blocks size of I/O buffer);
- change ^P function key (extract Previous command line) to ^V (extract preVious command line) for use VTfm on Console terminal;
- works on VAX, Alpha and IA64 with OpenVMS.

- supports only LOCAL or CLUSTERWIDE disk devices when GotoDir, Copy, RenMov or Delete (if need to use NODE specification use VTfm command line);
- □ does not support "*", "%", "?", "[.", ".]", "[-", ".-" and "..." in DIRECTORY specification when GotoDir, Copy or RenMov;
- □ does not support EXTENDED FILE SPECIFICATIONS on ODS-5 volumes;
- □ does not open any archive files (use correspondent utility in VTfm command line).

2004, November - Release 2.2-A

- supports possibility of using F1-F10 keys on some keyboards instead of default F11-F20 keys (use "f1" argument when run VTfm);
- □ some bug fixes;
- works on VAX, Alpha and IA64 with OpenVMS.

Currently known restrictions:

- supports only LOCAL or CLUSTERWIDE disk devices when GotoDir, Copy, RenMov or Delete (if need to use NODE specification use VTfm command line);
- □ does not support "*", "%", "?", "[.", ".]", "[-", ".-" and "..." in DIRECTORY specification when GotoDir, Copy or RenMov;
- □ does not support EXTENDED FILE SPECIFICATIONS on ODS-5 volumes;
- □ does not open any archive files (use correspondent utility in VTfm command line).

2005, January - Release 2.3-2

- □ first release with support of EXTENDED FILE SPECIFICATIONS on ODS-5 volumes;
- command line is up to 4K chars;
- □ some bug fixes;
- □ works on VAX, Alpha and IA64 with OpenVMS.

Currently known restrictions:

- supports only LOCAL or CLUSTERWIDE disk devices when GotoDir, Copy, RenMov or Delete (if need to use NODE specification use VTfm command line);
- □ does not support "*", "%", "?", "[.", ".]", "[-", ".-" and "..." in DIRECTORY specification when GotoDir, Copy or RenMov;
- □ does not open any archive files (use correspondent utility in VTfm command line).

2005, March - Release 2.3-4

- □ fix bug concerning incorrect display of file size in bytes when it more than 4GB;
- □ some bug fixes concerning long file names;
- works on VAX, Alpha and IA64 with OpenVMS.

- supports only LOCAL or CLUSTERWIDE disk devices when GotoDir, Copy, RenMov or Delete (if need to use NODE specification use VTfm command line);
- □ does not support "*", "%", "?", "[.", ".]", "[-", ".-" and "..." in DIRECTORY specification when GotoDir, Copy or RenMov;
- □ does not open any archive files (use correspondent utility in VTfm command line).

2005, March - Release 2.3-7

- □ improved overall performance;
- □ dynamic memory allocation for directory panels and command strings;
- □ more accurate code concerning the circumflex symbol (^) in file and directory specifications (in particular concerning the Unicode chars);
- works on VAX, Alpha and IA64 with OpenVMS.

Currently known restrictions:

- supports only LOCAL or CLUSTERWIDE disk devices when GotoDir, Copy, RenMov or Delete (if need to use NODE specification use VTfm command line);
- does not support "*", "%", "?", "[.", ".]", "[-", ".-" and "..." in DIRECTORY specification when GotoDir, Copy or RenMov;
- □ does not open any archive files (use correspondent utility in VTfm command line).

2005, March - Release 2.3-8

- environment file SYS\$LOGIN:VTFM\$ENVIRONMENT.DAT added for storing the following information when exit VTfm:
 - ✓ directory panels orientation (left/right or top/bottom);
 - ✓ current directory panel (left/right/top/bottom);
 - ✓ file size measure (blocks or bytes);
 - ✓ disk device and directory specification (for each panel);
 - ✓ filtering wildcard mask (for each panel);
 - ✓ selection wildcard mask (for each panel);
 - \checkmark current file bar position (for each panel);
- □ some minor bug fixes;
- works on VAX, Alpha and IA64 with OpenVMS.

- supports only LOCAL or CLUSTERWIDE disk devices when GotoDir, Copy, RenMov or Delete (if need to use NODE specification use VTfm command line);
- □ does not support "*", "%", "?", "[.", ".]", "[-", ".-" and "..." in DIRECTORY specification when GotoDir, Copy or RenMov;
- □ does not open any archive files (use correspondent utility in VTfm command line).

2005, April - Release 2.3-9

- □ some more enhancements concerning Find, Select and UnSelect functions:
 - ✓ possibility of using zero or nigative version numbers in wildcard masks (such as *.*;0 or *.*;-2 e.t.c.);
 - ✓ VTfm shows now the number of selected files in file statistics line;
 - ✓ VTfm switch OFF the Select (Sel) key when ALL files in diectory panel are selected;
 - ✓ VTfm switch OFF the Unselect (Rem) key when there are NO selected files in directory panel;
- □ some minor bug fixes;
- □ works on VAX, Alpha and IA64 with OpenVMS.

Currently known restrictions:

- supports only LOCAL or CLUSTERWIDE disk devices when GotoDir, Copy, RenMov or Delete (if need to use NODE specification use VTfm command line);
- □ does not support "*", "%", "?", "[.", ".]", "[-", ".-" and "..." in DIRECTORY specification when GotoDir, Copy or RenMov;
- □ does not open any archive files (use correspondent utility in VTfm command line).

2005, April - Release 2.3-A

- □ fix some bug concerning modification of Select function in VTfm release 2.3-9;
- □ works on VAX, Alpha and IA64 with OpenVMS.

- supports only LOCAL or CLUSTERWIDE disk devices when GotoDir, Copy, RenMov or Delete (if need to use NODE specification use VTfm command line);
- □ does not support "*", "%", "?", "[.", ".]", "[-", ".-" and "..." in DIRECTORY specification when GotoDir, Copy or RenMov;
- □ does not open any archive files (use correspondent utility in VTfm command line).