

# 6.0xx PATCH RELEASE NOTES

# Trap Tester 6

SEISMIC INTERPRETATION > STRUCTURAL MODELLING > FAULT SEAL



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Release 6.000	05/2009	Full distribution of TrapTester 6.0
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## PATCH INFORMATION

Patch 6.001	05/06/09	Patch release (Solaris/Linux/Interix)		
<b>Bug Fixes/Enhancements</b>				
<b>ID No.</b>	<b>MODULE:</b>	<b>FILES</b>		
<1713>	EARTHGRID:	lib*/libEarthGrid.so		
		Cell-Grid layer to horizon point-set conversion incorrectly permits creation of marker horizons.		
<1714>	TEMPLATES:	etc/fdb/rmf.mth/dsp/..		
		Project templates for TT-TransGen Fault-Zone thickness and permeability were missing from the template storage area and from the d3 demo project.		
<1719>	DEMO-PROJ:	idb/rst		
		The demo project contained an EarthGrid Scenario that would not load into the Volume Editor as it contained refs to components not yet commercially available in TT.		
<1722>	DOCS:	docs/.../Help/FauAttr		etc/cxh/...
		Missing context-sensitive help link pages for attribute export utility. Corrections to context sensitive help content.		
<1723>	SEISMIC:	lib*/libSection.so	lib*/libBGL.so	lib*/libCDA.so
		Added new 2D seismic dip filter processing option for section displays.		
<1728>	DOCS:	etc/cxh/...		
		Various fixes to context sensitive help popup text content.		
<1729>	SURFACE:	lib*/libSurface.so		
		New feature to flip the hangingwall and footwall of a polygon.		
<1730>	GEOSEVER:	lib*/libGEOS.so		
		Editing polygons could result in zero points in the polygon.		
<1731>	GEOSEVER:	lib*/libGEOS.so		
		Volume Editor unstable after intersection/attribute sync.		
<1732>	TRIANGLE:	lib*/libGEOS.so		
		A fix to an error in the generalised CSP calculation.		
<1733>	GEOSEVER:	lib*/libGEOS.so		
		Trimeshes not getting created for horizons when no faults in project.		

<b>Patch 6.002</b>		19/06/09	Patch release (Solaris/Linux/Interix)		
<b>Bug Fixes/Enhancements</b>					
<b>ID No.</b>	<b>MODULE:</b>	<b>FILES</b>			
<1734>	SYSTEM:	lib.Linux3/*	scripts/configfaps	scripts/editFAPS	
		scripts/editfileFAPS		scripts/lmadmin	
		scripts/openurifaps		scripts/postioconf	
		scripts/versionFAPS		scripts/starttt	
		etc/menus/ttmenu.rc		etc/iosys/systems.rc	
		user/xdef/Linux3/faps			
		user/xdef/Linux3/xphoto			
Support for Red Hat Enterprise Linux 3					
<1738>	VOLUME-EDITOR:	lib*/libGEOS.so	lib*/libGOM.so	lib*/libCDA.so	
		lib*/libTXM.so	lib*/libTTR.so		
Juxtaposition overlap area attribute was reporting texel areas. Juxtaposition overlap area and texel area are both now in the list of available fault surface attributes. The texel area attribute is used by TrapAnalyst.					
<1739>	VOLUME-EDITOR:	lib.Interix/libGEOS.so			
		<i>Interix only:</i> Computation of SGR fault surface attribute was resulting in incorrect values (compiler optimization issue)			
<1740>	EARTHGRID:	lib*/libGEOS.so	lib*/libGOM.so		
		Fixes occasional hang in the volume-editor EarthGrid minimodel display and the Eclipse data export.			

<b>Patch 6.003</b>		29/06/09	Patch release (Solaris/Linux/Interix)		
<b>Bug Fixes/Enhancements</b>					
<b>ID No.</b>	<b>MODULE:</b>	<b>FILES</b>			
<1419>	VOLUME-EDITOR:	bin*/vol_ed	lib*/libGEOS.so		
		Windows/Interix Only. Attribute and contouring could cause volume editor to crash when working on large faults/horizons. This is due to stack-size restrictions that have now been increased in this patch. This bug has been fixed before but the required stacksize is larger in this release.			
<1745>	FAULTED:	lib*/libGOM.so	lib*/libGEOS.so		
		Textured stress attributes are not correct.			
<1741>	PATCH:	patches/autoPATCH			
		patches/installPATCH			
	Includes an alteration to permit correct patching under Vista 64 bit. Also has better future support for patching the patch system.				
<1744>	ASCII-IO	bin*/well_ex			
		Well data ASCII export did not export marker horizon picks.			
<1742>	SYSTEM:	scripts/configfaps	scripts/starttt	scripts/w32install.cs h	
		Fixes startup problem when running TT on Windows with Active Directory. The problem was caused by the xterm utility not starting when the machine could not connect to the Active Directory server to authenticate the user.			

Patch 6.004		08/07/09		Patch release (Solaris/Linux/Interix)	
<b>Bug Fixes/Enhancements</b>					
ID No.	MODULE:	FILES			
<1748>	TXM:	lib*/libTXM.so			Inadequate circular dependance checks for Display Method filters.
<1749>	CUBEXPLORER:	lib*/libCubeX.so	lib*/libMU.so		Abnormal exit in Volume Editor when creating probe in current 2d viewer.
<1750>	CUBEXPLORER:	lib*/libCubeX.so			Volume colour in Volume Manager probe list does not update when SIAC colour changed.
<1757>	ATTALC:	etc/fdb/flt.mth/uda/*			Add better notes regarding unit requirements in AttCalc macro templates for Fault and Triangle tasks.
		etc/fdb/tri.mth/uda/*			
<1758>	TXM:	lib*/libTXM.so			Not possible to delete TXM display filters or colour maps using the Display Method Editor.
<1759>	TRIANGLE:	bin*/triangle			Incorrect values returned when querying a plot with a "User" range specified.
<1760>	DATABASE:	lib*/libDB2.so			Add MicroDarcies to Permeability units domain.

Patch 6.005		05/08/09		Patch release (Solaris/Linux/Interix)	
<b>Bug Fixes/Enhancements</b>					
ID No.	MODULE:	FILES			
<1759>	TRIANGLE:	bin.*/triangle			Triangle fails to plot correctly when custom throw and depth values are used.
<1761>	CUBEXPLORER:	lib*/libCubeX.so			Volumes that are not of 8-bit format fail to load.
<1762>	DB EXPLORER:	bin.*/dbtree			Inactive surveys incorrectly appear sensitive in Database Explorer menus.
<1766>	DB EXPLORER:	bin.*/dbtree	lib.*/libU.so		Database Explorer fails to start if the settings file is corrupted.
<1768>	WELL EXPORT:	bin.*/well_ex			Well Exporter format options function incorrectly.
<1769>	VOLUME-EDITOR:	lib.*/libBOGL.so			Occasional Volume Editor crash whilst using multiple viewer windows.
<1770>	SYSTEM:	scripts/unlockFAPS			Project unlock fails to clear database lock.

Patch 6.010	18/08/09	TrapTester Enhancement Patch Release (Solaris/Linux/Interix)
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### General Information

This is an enhancement patch release. There are two PDFs included with this patch that get installed in TT\_HOME/docs/6.010 - these describe the new fracture network enhancements and the changes to FASIT.

### Bug Fixes/Enhancements

ID No.	MODULE:	FILES		
<1756E>	FASIT:	bin.*/fasit	etc/fasit/global/*.dat	
		docs/6.010/fasit.pdf		
	Fault statistics module has been extended to permit the display of global and empirical datasets for direct comparison with project data. Refer to the PDF (TT_HOME/docs/6.010/fasit.pdf) for more details.			
<1771E>	TT:	lib*/libAPPL.so	lib*/libBOGL.so	lib*/libCDA.so
		lib*/libGEOS.so	lib*/libMU.so	lib*/libTXM.so
		lib*/libSAE.so	lib*/libU.so	lib*/libSurface.so
		lib*/libFaultED.so	lib*/libSection.so	bin*/attex
		bin*/fnwk_imp	bin*/fnwk_exp	bin*/dbtree
		bin*/sf_ed	etc/faprc/idb/ofnfmt/TT_Discrete.sae	
		etc/faprc/idb/ifnfmt/TT_Discrete		docs/6.010/frac.pdf
	Extensions to TT I/O and Volume-Editor's Surface Module to permit the import, display, manipulation and export of discrete fracture data. In particular, the new import tool permits well-based fracture logs to be loaded. The Surface module provides extended fracture selection, assignment and rescaling tools. The new export tool permits the export of discrete fracture data with any selection of computed properties. Refer to the PDF (TT_HOME/docs/6.010/frac.pdf) for more details.			
<1772>	FASIT:	bin.*/fasit		
	Hot-keys for menu items override text entry for plot names. Hot-keys have now been altered to use non-typographic keys.			
<1773>	SECTION:	lib.*/libSection.so		
	Volume-Editor's Section Module Frame control slider loses increment settings between sessions and on other occasions.			
<1774>	CDA:	lib.*/libCDA.so		
	Changes to survey-based horizon bulk data do not get processed correctly by the CDA IPC handler and do not get propagated to listening applications.			
<1776>	FASIT:	bin.*/fasit		
	Fault Displacement module crashes on adding profile.			

<b>Patch 6.011</b>	10/09/09	Patch release (Solaris/Linux/Interix)		
<b>Bug Fixes/Enhancements</b>				
<b>ID No.</b>	<b>MODULE:</b>	<b>FILES</b>		
<1521>	TRIANGLE:	bin.*/triangle	lib.*/libGEOS.so	
	Incorrect CSP (Yielding) Triangle plot.			
<1778>	VOLUME-EDITOR:	lib.*/libTTR.so		
	TrapAnalyst has potential to report wrong hydrocarbon contact depth in TIME projects.			
<1780>	TRIANGLE:	bin.*/triangle		
	Occasional signal 11 error when editing colourbar.			
<1783>	VOLUME-EDITOR:	lib.*/CubeX.so		
	Persistent toggle in CubeXplorer Volume list operates incorrectly.			
<1784>	VOLUME-EDITOR:	lib.*/libGEOS.so		
	Mesh of splay near branchline occasionally incorrect.			

<b>Patch 6.012</b>	12/10/09	Patch release (Solaris/Linux/Interix)		
<b>Bug Fixes/Enhancements</b>				
<b>ID No.</b>	<b>MODULE:</b>	<b>FILES</b>		
<1791>	TRAPTESTER:	bin.*/fsit		
	FASIT: any editing after applying a fill (to curves/polygons while in strain summation) causes crash.			
<1804>	FAULTED:	lib.*/libGEOS.so		
	FaultED crash during pre-model restoration.			
<1787>	TRAPTESTER:	lib.*/libSection.so		
	Section-2dmove export produces dxf files that cannot be read by other applications (Lithotect).			
<1793>	TRAPTESTER:	etc/fasit/global/All_Flts.dat		
		etc/fasit/global/All_Flts_from_Schultz_2008.dat		
		etc/fasit/global/Normal_Flts_Basement_rocks.dat		
	FASIT: Update to three global data files.			
<1808>	FAULTED:	lib.*/libGEOS.so		
	FaultED panelling fails unless fault surface loaded via surface module.			
<1795>	TRAPTESTER:	bin.*/fasit		
	FASIT: Memory error (no crash) associated with selections of filled curves.			
<1796>	TRAPTESTER:	bin.*/fasit		
	FASIT: No Fault Length option in the Format Editor.			
<1806>	OPENWORKS LINKS:	bin.*/ow2003_12_seisio		
		bin.*/ow5000_0_seisio		
	OW seismic loader gets incorrect z_factor.			

<b>Patch 6.013</b>		06/11/09		Patch release (Solaris/Linux/Interix)	
<b>Bug Fixes/Enhancements</b>					
<b>ID No.</b>	<b>MODULE:</b>	<b>FILES</b>			
<1811>	DBTREE:	bin.*/dbtree	bin.*/segy2bgl	lib.*/libBOGLU.so	
		lib.*/libMU.so	lib.*/libSection.so	lib.*/libU.so	
"Sort by name" for wells works spuriously.					
<1813>	OPENWORKS LINKS:	bin.Linux/ow2003_12_dataio			
		bin.Linux/ow5000_0_dataio			
OpenWorks 2D horizon import could occasionally read data from the wrong lines (suspected compiler optimization issue).					
<1825>	APPL:	lib.*/libAPPL.so			
	Occasional crash after specifying long object name.				
<1819>	IESX-LINKS:	bin.Linux/iesx43_wellio			
		bin.Linux/iesx44_wellio			
		bin.Solaris8/iesx404_wellio			
		bin.Solaris8/iesx42_wellio			
		bin.Solaris8/iesx43_wellio			
		bin.Solaris8/iesx44_wellio			
IESX well import problem (first measured depth equals zero).					
<1821>	SEISMIC CAPTURE:	bin.*/bgl_capture			
	BGL capture sets first_z location for line to incorrect value.				
<1826>	APPL:	lib.*/libAPPL.so			
	Polygon editor dialog displays wrong units for Z domain.				
<1820>	APPL:	lib.*/libAPPL.so			
	Well edit dialogue does not propagate XYZ TVD changes to well picks.				
<1824>	DBTREE:	bin.*/dbtree			
	Renaming selected node does not update name in editor title.				

<b>Patch 6.014</b>		18/11/09		Patch release (Linux)	
<b>Bug Fixes/Enhancements</b>					
<b>ID No.</b>	<b>MODULE:</b>	<b>FILES</b>			
<1835>	TRAPTESTER:	bin.Linux/dbtree	bin.Linux/segy2b	lib.Linux/libMU.so	
		bin.Linux/bgl_create			
		bin.Linux/iesx43_wellio			
		bin.Linux/iesx44_wellio			
		lib.Linux/libAPPL.so			
		lib.Linux/libBOGLU.so			
		lib.Linux/libSection.so			
Applications fail to start with error "undefined symbol: stat".					
<1821>	TRAPTESTER:	bin.Linux/bgl_capture			
	BGL capture sets first z location for line incorrectly.				

<b>Patch 6.015</b>	25/11/09	Patch release (Solaris/Linux/Interix)	
<b>Bug Fixes/Enhancements</b>			
<b>ID No.</b>	<b>MODULE:</b>	<b>FILES</b>	
<1822>	TRIANGLE:	bin.*/triangle	
	Abnormal exit signal 11 in Triangle.		
<1827>	TRIANGLE:	bin.*/triangle	
	Aesthetic improvements for Triangle.		
<1840>	SEISMIC IMPORT:	bin.*/segy2bgl	
	SEGY 2-D load fails with blocks of duplicate X and Y values.		

<b>Patch 6.016</b>	30/11/09	Patch release (Solaris/Linux/Interix)	
<b>Bug Fixes/Enhancements</b>			
<b>ID No.</b>	<b>MODULE:</b>	<b>FILES</b>	
<1845>	EARTHGRID:	lib.*/libCPG.so	
	Fault planes fail to extract in EarthGrid.		

<b>Patch 6.017</b>	01/12/09	Patch release (Solaris/Linux/Interix)	
<b>Bug Fixes/Enhancements</b>			
<b>ID No.</b>	<b>MODULE:</b>	<b>FILES</b>	
<1847>	OPENWORKS LINKS:	bin.Linux3/ow2003_12_dataio	
		bin.Linux3/ow2003_12_wellio	
	EL3 OpenWorks data and well links error with "undefined symbol: stat".		

<b>Patch 6.018</b>	06/01/10	Patch release (Solaris/Linux/Interix)	
<b>Bug Fixes/Enhancements</b>			
<b>ID No.</b>	<b>MODULE:</b>	<b>FILES</b>	
<1856>	TRAPTESTER:	lib.*/libGOM.so	
	Optimized GOM lib could cause spurious FaultED calculations.		
<1858>	SEISMIC IMPORT:	bin.*/segy2bgl	
	SEGY loader causes staircase nav for duplicate XY case.		

Patch 6.020	01/02/10	Patch release (Solaris/Linux/Interix)
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**Enhancements**

ID No.	MODULE:	FILES
	TRAPTESTER:	ALL FILES
<p>This patch introduces two major new enhancements:</p> <ol style="list-style-type: none"> <li>1) <i>Depth Conversion of time projects.</i> This includes storage and manipulation facilities for well time-depth curves. The depth conversion process operates on the entire framework model and optionally on BGL seismic data.</li> <li>2) <i>Copy &amp; Paste facility in Database Explorer.</i> This permits fast simple replication of most of the TrapTester object types. Once this patch has been installed refer to the PDFs in TT_HOME/docs/6.020 for a more detailed description of the new features.</li> </ol>		

Patch 6.021	11/02/10	Patch release (Solaris/Linux/Interix)
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**Bug Fixes/Enhancements**

ID No.	MODULE:	FILES
<1860>	TRAPTESTER:	bin.*/ttopup
ttopup does not display image on PC-Xserver for Vista/Windows-7.		
<1861>	VOLUME EDITOR:	lib*/libCubeX.so
CubeXplorer volume memory limits reported inaccurately.		
<1862>	TRAPTESTER:	lib.Linux/libTG.so
Replaces old-build of libTG.so which caused TT apps to crash with "undefined symbol: stat" when run on early versions of RHE-5.		

Patch 6.022	05/03/10	Patch release (Solaris/Linux/Interix)
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**Bug Fixes/Enhancements**

ID No.	MODULE:	FILES
<1828>	WELL:	lib.*/libBOGL.so
Well log data not coloured accurately according to colour-bar due to vertex shading constraints. Now uses 1D-texturing.		
<1866>	TRAPTESTER:	lib.*/libG2D.so
Increased accuracy for graph-point selection in Time-Depth curve editor.		
<1867>	DB-EXPLORER:	lib*/libCDA2.so
Copy & Paste of fault-based fault segments can cause data duplication.		
<1872>	TRAPTESTER:	lib*/libIDB500.so bin*/t2dconv
Well horizon and fault picks not accurately converted when using the new 6.020 Time-to-Depth conversion system.		

<b>Bug Fixes/Enhancements</b>			
<b>ID No.</b>	<b>MODULE:</b>	<b>FILES</b>	
<1874>	ATTCALC/TXM:	lib*/libTXM.so	etc/attcalc/*.h
	Increased number of available user-defined attributes from 16 to 32.		
<1877>	BOGL:	lib*/libBOGL.so	
	Improved volume editor (+other BOGL clients) reset/warp view aesthetics. Now uses a "glide-to-view" transition.		
<1879>	WELL:	lib.*/libWell.so	
	Well-log data scaling can be incorrect.		
<1880>	EARTHGRID:	lib*/libTXM.so	
	Attribute range filter editor for display-methods uses non-existent attribute id to obtain default settings.		
<1881>	VOLUME EDITOR:	lib*/libEarthGrid.so	
	Volume Editor crash when loading session containing unlicensed EarthGrid scenario.		
<1882>	ECLIPSE I/O:	lib*/libIDB500.so	
	ECL import fails to assign new 6.020 model-data source value. Export not possible.		
<1884>	VOLUME EDITOR:	lib.*/libTCM.so	
	Contour method editor: third user-defined contour incorrectly inherits settings from those of the second.		
<1885>	DB-EXPLORER:	bin.*/dbtree	
	Delete hot-key (for deleting data objects) works incorrectly with text-fields. Now use CTRL+X.		
<1887>	ASCII:	bin.*/ctrex	
	Contour data explorer fails to export user-defined contours.		

<b>Patch 6.023</b>	08/03/10	Patch release (Solaris/Linux/Interix)	
<b>Bug Fixes/Enhancements</b>			
<b>ID No.</b>	<b>MODULE:</b>	<b>FILES</b>	
<1888>	VOLUME EDITOR:	lib*/libCDA.so	
	Deleting points from a fault pointset fails with database errors.		

<b>Patch 6.024</b>	09/03/10	Patch release (Solaris/Linux/Interix)	
<b>Bug Fixes/Enhancements</b>			
<b>ID No.</b>	<b>MODULE:</b>	<b>FILES</b>	
<1889>	VOLUME EDITOR:	lib*/libGEOS.so	
	Footwall SGR attributes are unreliable if synchronised on 64-bit Linux.		

<b>Patch 6.025</b>		13/04/10	Patch release (Solaris/Linux/Interix)	
<b>Bug Fixes/Enhancements</b>				
<b>ID No.</b>	<b>MODULE:</b>	<b>FILES</b>		
<1891>	VOLUME EDITOR:	lib.*/libSurface.so	TrapAnalyst: element selection on Solaris can cause vol_ed to crash.	
<1892>	VOLUME EDITOR:	lib.*/libTTR.so	TrapAnalyst: when report creation fails, the element counter is wrongly set to zero.	
<1894>	TRAPTESTER:	scripts/configfaps	TT-TransGen: Drag & Fault-Zone plugins do not build on Interix.	
<1896>	FASIT:	bin.*/fasit	FASIT: does not plot the sense of movement on faults (-ve on reverse faults).	
<1900>	TRAPTESTER:	lib.*/libAPPL.so	Time-Depth-Curve editor and Time-Depth-Conversion-Scenario editor: add option to anchor velocity line intercepts to 0,0 and add background colour selection tool.	
<1902>	TRAPTESTER:	bin*/t2dctrl	Time-Depth converter only allows single selection in seismic volume lists.	
<1905>	IESEX-LINKS:	bin.Linux3/iesx_dataio bin.Linux3/iesx_seisio bin.Linux3/iesx43_data bin.Linux3/iesx43_seis bin.Linux3/iesx43_wellio etc/iosys/systems.rc	Support Geoframe IESX 4.3 on Redhat EL3	

<b>Patch 6.026</b>		05/05/10	Patch release (Solaris/Linux/Interix)	
<b>Bug Fixes/Enhancements</b>				
<b>ID No.</b>	<b>MODULE:</b>	<b>FILES</b>		
<1721>	CUBE EXPLORER:	lib.*/libCubeX.so	Probe upper face still visible even when switched off in Style Editor.	
<1906>	TRAPTESTER:	lib.Linux3/libTG.so	libTG causes missing symbol "stat" on RHEL3.	
<1907>	DBTREE:	bin.*/dbtree	Timeslice objects are sorted incorrectly.	
<1913>	DBTREE:	lib.*/libMU.so	Selecting option menu items does not enable Apply button in Database Explorer.	
<1914>	TRAPTESTER:	lib.*/libAPPL.so	Time-Depth Curve editor issues an error message on creation.	
<1915>	DBTREE:	bin.*/dbtree	Resizing Database Explorer can result in layout issues.	

<1916>	EARTHGRID:	lib*/libCPG.so	lib*/libGOM.so	
	EarthGrid fault walls miss-assigned.			
<1918>	IDB EDITOR:	bin*/asc_io		
	ASCII fault segment export fails for fault-based segs			
<1920>	EARTHGRID:	lib*/libGEOS.so		
	EarthGrid fault user-attributes not computed when selected in proj-params.			
<1921>	EARTHGRID:	lib*/libCDA.so		
	EarthGrid plugin user-attributes not assigned as set in scenario.			

<b>Patch 6.027</b>	21/06/10	Patch release (Solaris/Linux/Interix)
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### ***Bug Fixes/Enhancements***

<b><i>ID No.</i></b>	<b><i>MODULE:</i></b>	<b><i>FILES</i></b>		
<1923>	CUBE EXPLORER:	lib.*/libCubeX.so		
	Loading sections via CubeXplorer probe faces causes exception.			
<1927>	DATA I/O:	bin.*/well_ex		
	Well data export fails if the the well name contains invalid path characters.			
<1929>	TRAPTESTER:	lib.*/libMU.so		
	Occasionally get "XError BadWindow" when attempting to restart crashed apps.			
<1930>	TRIANGLE:	bin.*/triangle		
	ASCII output from irregular triangle plots does not output all depth values.			
<1933>	DATA I/O:	lib.*/libGEOS.so		
	Import of "multi-surface" GOCAD format tri-meshes can cause problems with polygon manipulation and attribute generation.			
<1934>	FAULTED:	lib.*/libGEOS.so		
	<p><i>Enhancement.</i> ASCII output of attributes. The output file is located at:</p> <p style="text-align: center;">&lt;project&gt;/fed/&lt;scenario&gt;/&lt;surface_name&gt;/SurfaceAttr</p> <p>Each record in the file contains:</p> <p style="text-align: center;">x, y, z, Ux, Uy, Uz, E1, E2, E3 K-shape, K-dist, E-mag, Delta-v S1, S2, S3 S-mean, S-diff, MCSS</p>			

<b>Patch 6.030</b>	11/08/10	TrapTester Enhancement Patch Release (Solaris/Linux/Interix)		
<b>Bug Fixes/Enhancements</b>				
<b>ID No.</b>	<b>MODULE:</b>	<b>FILES</b>		
	TRAPTESTER:	All Files		
<p>This patch introduces several major new enhancements:</p> <ul style="list-style-type: none"> <li>* Linux 64 bit run-time binaries</li> <li>* Horizon Flattening</li> <li>* Seismic Correlation Panels</li> <li>* Direct link for Petrel (import to TT, requires Petrel plugin)</li> <li>* Improved 2D seismic access handling</li> <li>* OpenWorks R5000.02 support (32 bit and 64 bit Linux)</li> <li>* Licensing now uses FlexNet Publisher 11.7</li> <li>* TT project manager now supports name/data based sorting</li> <li>* TT main menu now provides project startup options</li> <li>* Additional horizon curvature attributes.</li> </ul> <p>Once this patch has been installed refer to the NewFeatures PDF in TT_HOME/docs/6.030 for a more detailed description of the new features.</p>				

<b>Patch 6.040</b>	11/10/10	TrapTester Incremental Upgrade (Solaris/Linux/Interix)		
<b>Bug Fixes/Enhancements</b>				
<b>ID No.</b>	<b>MODULE:</b>	<b>FILES</b>		
<1951-E>	IESX-LINKS:	scripts/chconf	scripts/iesxconf	etc/iosys/systems.rc
		etc/menus/ttmenu.rc		
		bin.Solaris8/iesx45_data		
		bin.Solaris8/iesx45_seis		
		bin.Solaris8/iesx45_well_io		
		bin.Linux/iesx45_data		
		bin.Linux/iesx45_seis		
		bin.Linux/iesx45_well_io		
Add direct-link support for Geoframe 4.5				
<1952>	SEISMIC-MODULE:	lib*/libSection.so		
Timeslice load crashes Vol Ed (Regressive bug from 6.030).				
<1953-E>	ECLIPSE I/O:	bin*/ecl_export		
Add support for CMG's IMEX in GPG/ECLIPSE export tool.				
<1954>	WELL-MODULE:	lib*/libWell.so		
Well attributes curve fails to show attribute curves where all the data equals one value.				
<1955>	CUBE-XPLORER:	lib*/libCubeX.so		
Probe timeslice face fails to render if Z is negative.				

Patch 6.040		11/10/10		TrapTester Incremental Upgrade (Solaris/Linux/Interix)	
<b>Bug Fixes/Enhancements</b>					
ID No.	MODULE:	FILES			
<1956-E>	VOLUME MANAGER:	bin*/bgl_manager			
	Add conditions to and improve 3D volume merge function. (See <TT_HOME>/docs/6.040/NewFeatures.pdf)				
<1958-E>	CUBEXPLORER:	lib*/libCubeX.so	lib*/libZIP3D.so	lib*/libCDA2.so	
		lib*/libAPPL.so	lib*/libMU.so	bin*/vol_ed	
	Add 3D horizon autotracker. (See <TT_HOME>/docs/6.040/NewFeatures.pdf)				
<1959-E>	SURFACE-MODULE:	lib*/libSurface.so	lib*/libCDA2.so	lib*/libAPPL.so	
		lib*/libFaultED.so	lib*/libGEOS.so	bin*/attex	
		bin*/sf_ed	bin*/petrel_io	bin*/fnwk_imp	
		bin*/fnwk_exp			
	Add facility to convert fault surface to a discrete fracture network. This is a new option available on the Volume Editor's MB3 popup menu when one or more fault surfaces are selected. (See <TT_HOME>/docs/6.040/NewFeatures.pdf).				
<1960-E>	TRAPTESTER:	lib*/libAPPL.so	bin*/hrzutil		
		etc/menus/ttmenu.rca			
	Add utility to manipulate horizon data volumes. New "Horizon Volume Utility" is accessible from TT control panel. (See <TT_HOME>/docs/6.040/NewFeatures.pdf)				
<1961-E>	CUBEXPLORER:	lib*/libCubeX.so			
	Extend probe controller interface to allow CubeXplorer Probe to switch volume. (See <TT_HOME>/docs/6.040/NewFeatures.pdf)				
<1963>	CUBEXPLORER:	lib*/libCubeX.so			
	CubeXplorer volumes lost during session load.				
<1964>	SLICER:	bin*/slicer			
	Horizon seismic slicing fails (attribute id resolution error). (Regressive bug from 6.030).				
<1966>	FASIT:	bin*/fasit			
	Cannot plot dip-separation on log-log plots.				
<1967-E>	SEISMIC-MODULE:	lib*/libSection.so			
	Add display of interpretation data to the Seismic Correlation Panel. (See <TT_HOME>/docs/6.040/NewFeatures.pdf)				
<1968>	ATTCALC:	etc/attcalc/template.c			
	Saving a user defined attribute could result in compiler warnings relating to implicit declaration of the memcpy() function.				
<1969>	FASIT:	bin*/fasit			
	Spurious info on global D-L data.				
<1970>	FASIT:	bin*/fasit			
	Depth conversion scenario editor velocity checks incorrect.				
<1972>	DBTREE:	libAPPL.so			
	Depth conversion scenario editor velocity checks incorrect.				
<1973-E>	TRAPTESTER OFFSET:				
	ASCII Export omits Polygon ID if <10.				

<b>Patch 6.041</b>	27/10/10	TrapTester Enhancement Patch Release (Solaris/Linux/Interix)		
<b>Bug Fixes/Enhancements</b>				
<b>ID No.</b>	<b>MODULE:</b>	<b>FILES</b>		
<1975-E>	FASIT MODULE:	bin*/fasit		
	ASCII export from fault-statistics tool now includes pole vectors.			
<1978-E>	OPENWORKS LINKS:	bin.Linux3/ow2003_12_wellio		
		bin.Linux/ow2003_12_wellio		
		bin.Solaris8/ow2003_12_wellio		
		bin.Linux/ow5000_0_0_wellio		
		bin.Linux/ow5000_0_2_wellio		
		bin.Linux_64/ow5000_0_2_wellio		
	OW Well link needs option to use UWI rather than common well name (CWN). New interface options allow TT well-names to be taken from the OW UWI and/or CWN.			
<1981-E>	VOLUME EDITOR:	lib*/libBOGL.so	bin*/vol_ed	
	Graticule revamped: 1) Background colour added to text. 2) New Y-axis annotation direction option. 3) New options to permit annotation at top/base/left/right. 4) New option to switch on/off graticule margin.			
<1984>	DEPTH CONV:	bin*/t2dctrl		
	Depth conversion fails on restart.			
<1985>	TT-SYSTEM:	bin*/ttctl		
	Solaris, problem with project last-access-time checking. TT control menu would crash for negative project time-diff.			
<1987>	PLOT-VIEWER:	bin.*/plotviewer		
	PlotViewer not included, as it should have been, as part of Bug 1959.			
<1988>	PLOT-VIEWER:	bin.*/plotviewer		
	Crash when plotting data for attributes with long names.			
<1989>	EARTHGRID:	lib*/libTGP.so		
	Interix, TT-TG plugins fail to load when in use by another app.			
<1990>	SURFACE:	libCDA2.so		
	Rescaling discrete fractures produces odd results.			
<1991>	TT-SYSTEM:	lib.Linux/libGLw.so.1		
		lib.Linux_64/libGLw.so.1		
	TrapTester application startup fails with missing libGLw.so.			
<1992-E>	ASCII-I/O:	etc/faprc/idb/ifnfmt/MidlandValley		
	Add MV fracture network format for discrete fracture import.			
<1993>	OPENWORKS LINKS:	lib.Linux_64/ow2003.12		
		lib.Linux_64/ow2003.12/*		
	OW 32bit compatibility libs missing from 64 bit install.			
<1994>	BASEMAP:	lib.*/libCUL.so		
	Culture images fail to load into volume editor. Volume Editor crashes on trying to unload them.			

<b>Patch 6.041</b>	27/10/10	TrapTester Enhancement Patch Release (Solaris/Linux/Interix)	
<b>Bug Fixes/Enhancements</b>			
<b>ID No.</b>	<b>MODULE:</b>	<b>FILES</b>	
<1995>	EARTHGRID:	lib*/libCDA2.so	
	IPC events not propagated for locked cell-fault traces.		
<1996>	ASCII-I/O:	lib*/libCDA2.so	
	Discrete fracture import crash when used in append mode.		
<1997>	WELL MODULE:	lib*/libCDA2.so	
	Selection of well-trajectory with duplicate adjacent z-locations crashes Volume Editor.		
<1998>	ASCII-I/O:	bin*/asc_io	
	Well data import can crash with Attribute Definition names >80 chars.		
<1999>	SURFACE MODULE:	lib*/libSurface.so	
	Add area delete option for triangles belonging to fault and horizon tri-meshes. The new option is accessed by selecting a surface and using the MB3 popup menu options:  Fault surface->Edit tri-mesh->Area-delete triangles Horizon surface->Edit tri-mesh->Area-delete triangles		

<b>Patch 6.042</b>	10/12/10	TrapTester Enhancement Patch Release (Solaris/Linux/Interix)	
<b>Bug Fixes/Enhancements</b>			
<b>ID No.</b>	<b>MODULE:</b>	<b>FILES</b>	
<2001>	TT-SYSTEM:	lib*/libTG.so	
	Exported transmissibilities all zero for some grid orientations.		
<2011>	VOLUME EDITOR:	lib*/libTTR.so	
	TrapAnalyst report generation crashes vol_ed.		

<b>Patch 6.043</b>	20/12/10	TrapTester Enhancement Patch Release (Solaris/Linux/Interix)	
<b>Bug Fixes/Enhancements</b>			
<b>ID No.</b>	<b>MODULE:</b>	<b>FILES</b>	
<2015>	VOLUME EDITOR:	lib.*/libMU.so	
	TrapAnalyst result window scrolling fails on Solaris.		

<b>Patch 6.050</b>	03/02/11	TrapTester Incremental Upgrade Release (Solaris/Linux/Interix)	
<b>Bug Fixes/Enhancements</b>			
<b>ID No.</b>	<b>MODULE:</b>	<b>FILES</b>	
	TT-SYSTEM	All Files	
	<p>In addition to the specific items below, This patch introduces several major new enhancements:</p> <ul style="list-style-type: none"> <li>• Global seismic colourmaps</li> <li>• General purpose interactive Grid-Definitions</li> <li>• Contours for FaultED surfaces</li> <li>• History logging system</li> <li>• Multi-core/multi-processor support</li> <li>• Horizon gridding moved to Volume-Editor</li> <li>• Automated fault surface modelling</li> <li>• FNET import/export</li> <li>• Polygon-based horizon raw data cropping</li> </ul> <p>Once this patch has been installed refer to the New Features PDF in TT_HOME/docs/6.050 for a more detailed description of the new features.</p>		
<1705-E>	<b>VOLUME EDITOR:</b>		
	Allow optional sharing of seismic colourmap between CubeX/Section modules.		
<1965-E>	<b>FASIT:</b>		
	Put Fault-List access in FASIT (statistical analysis tool).		
<2002 >	<b>ASCII-IO:</b>		
	Attribute export for FaultED deformed well paths fails with "no host data".		
<2003-E >	<b>DBTREE:</b>		
	Add support for creating lists from tree selections where appropriate.		
<2004-E>	<b>CUBEXPLORER:</b>		
	Improved shared memory usage display in CubeXplorer.		
<2005-E>	<b>CUBEXPLORER:</b>		
	Improve section loading heuristics.		
<2006>	<b>SEISMIC:</b>		
	Changing section seismic access does not update seismic display.		
<2007-E>	<b>EARTHGRID:</b>		
	Add TMX clipping [0,1] option to ECLIPSE export		
<2008>	<b>SEISMIC:</b>		
	Correlation panel option crashes under certain conditions.		
<2010-E>	<b>SURFACE:</b>		
	Add new option to crop horizon data to polygons.		
<2014-E>	<b>CUBEXPLORER:</b>		
	Allow volume/probe sidebar reverse resize operation via MB3.		
<2016>	<b>CUBEXPLORER:</b>		
	Allow fault/horizon interpretation on probe faces		
<2017>	<b>TRAPTESTER:</b>		
	Process Manager should show all TrapTester processes		

<i>ID No.</i>	<i>MODULE:</i>	<i>FILES</i>	
<2018>	DBTREE:		
	Fracture network texturemaps nodes list FaultED attributes.		
<2019>	TRAPTESTER:		
	Backup of large (>2GB) projects fails on Interix.		
<2025>	DBTREE:		
	Surface texturemap object selection crashes DBTREE on Solaris		
<2027>	WELLDATA EXPORT:		
	Zeros in attribute data output as NULL		

<b>Patch 6.051</b>	+10/05/11	TrapTester Incremental Upgrade Release (Solaris/Linux/Interix)
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### **Bug Fixes/Enhancements**

<i>ID No.</i>	<i>MODULE:</i>	<i>FILES</i>	
<2033>	TRAPTESTER:	scripts/starttt	scripts/w32install.csh
	TrapTester fails to install/start if home directory is not writeable.		
<2034>	ECLIPSE I/O:	bin.* /ecl_import	
	ECLIPSE import cannot handle compressed ZCORN format.		
<2040>	FACIT Module:	lib.* /libGOM.so	
	Spherical statistics (eigenvectors) for poles incorrectly plotted.		
<2041 >	CUBEXPLORER:	lib.* /libBOGL.so	lib.* /libCubeX.so
	CubeXplorer probes with a row/col or Z dimension of 1 fail to display correctly.		
<2042>	CUBEXPLORER:	lib.* /libMU.so	lib.* /libAPPL.so
	Unable to specify Z range using textboxes in Probe Controller.		
<2043>	CUBEXPLORER:	lib.* /libAPPL.so	lib.* /libCubeX.so
	Auto-select first access definition when loading volumes.		
<2044>	BASEMAP:	lib.* /libBasemap.so	
	MB3 menu option "Section load: choose viewer" not working for 3D lines.		
<2045>	VOLUME EDITOR:	lib.* /libGEOS.so	
	Modelled throw creates incorrect results for faults with small length-to-height ratios		
<2048>	SCRIPTS:	scripts/starttt	
	Enable TT to startup without version check.		
<2050>	TRAPTESTER:	bin.* /bgl_seisio	
	BGL seisio access corrected to deal better with sub-sampled volumes.		
<2051>	OPENWORKS LINKS:	etc/iosys/systems.rc	scripts/owconf
		etc/menus/ttmenu.rc	bin.* /ioconf
		bin.Linux/ow5000_0_2_5_dataio	
		bin.Linux/ow5000_0_2_5_seisio	
		bin.Linux/ow5000_0_2_5_wellio	
		bin.Linux_64/ow5000_0_2_5_dataio	
		bin.Linux_64/ow5000_0_2_5_seisio	
		bin.Linux_64/ow5000_0_2_5_wellio	
	Add direct-link support for OW R5000.0.2.5 (Linux 32 & 64 bit). Use these links when connection to OW R5000.0.2.5+		

Patch 6.052		03/06/11		TrapTester Patch Release (Solaris/Linux/Interix)	
<b>Bug Fixes/Enhancements</b>					
ID No.	MODULE:	FILES			
<2036>	CUBEXPLORER:	bin.*/vol_ed	lib.*/libEarthGrid.so		
		lib.*/libSection.so	lib.*/libSurface.so	lib.*/libWell.so	
Fault & horizon interpret-modes do not persist if probe face is incremented or pick mode changed.					
<2049>	SEISMIC:	lib.*/libSection.so			
		Clipbox on arbitrary line is too thin and can cause it to obscure the data on the section.			
<2053>	CUBEXPLORER:	lib.*/libMU.so			
		Values entered in probe controller volume fields can be lost under certain situations.			
<2054>	GEOSERVER:	lib.*/libGEOS.so			
		Fault dip attribute calculation error in time projects.			
<2056>	PETREL LINK:	bin.*/petrel_imp			
		Fault segments incorrectly imported as abstract instead of line or timeslice based.			
<2057>	CUBEXPLORER:	lib.*/libBOGL.so	lib.*/libU.so		
		Long delay when toggling interpretation mode.			
<2058 >	CUBEXPLORER:	bin.*/vol_ed	lib.*/libBOGL.so	lib.*/libCubeX.so	
		Interpretation-mode not restored when probe unhidden.			
<2063>	TRAPESTER:	bin.Linux_64/*	lib.Linux_64/*		
		64-bit conformance/stability enhancements.			
<2064>	VOLUME EDITOR:	lib.*/libBOGLU.so			
		Colour bars: possible error in implementation; dimensionless widget being created and managed causing occasional crash on some systems.			
<2066>	FAULTED:	lib.*/libGEOS.so			
		FaultED will inappropriately use fault segment tip flags even if fault has no polys.			
<2067>	SCRIPTS:	scripts/cpy_attr			
		cpy_attr script does not parse the task-id correctly.			
<2069>	ECLIPSE I/O:	bin*/ecl_import			
		ECL import crashes when no input files chosen.			
<2070>	IPC:	lib.*/libCDA.so			
		Apps should warn user if IPC not enabled/working.			
<2072>	FAULTED:	bin.*/tt_agent			
		Generating elastic model can hang on Interix.			
<2073-E>	TRAPESTER:	etc/faprc/ve/cmmaps		LINEAR.barfile	
		LINEAR-DEPTH.barfile			
		LINEAR-THROW.barfile			
		blue_brown_red (petrel).barfile			
		black_white_red.barfile			
		black_white_red.barfile			
Add additional seismic and general purpose colour maps.					
<2074>	FAULTED:	lib.*/libIDB500.so	scripts/upgradeFAPS		
		History logging for FaultED panel runs is broken.			

<i>ID No.</i>	<i>MODULE:</i>	<i>FILES</i>	
<2075>	TRAPTESTER:	lib.*/libAPPL.so	
	Closing stratigraphic sequence editor can result in an application hang.		
<2076-E>	TRAPTESTER:	scripts/starttt	scripts/lmadmin
	Ubuntu Linux support.		
<2078-E>	CUBEXPLORER:	lib.*/libCubeX.so	
	Visually show volume bounds when loading a volume.		
<2079>	CUBEXPLORER:	lib.*/libCubeX.so	
	Minor clipbox related issues.		
<2080-E>	SEISMIC:	lib.*/libSection.so	etc/faprc/ve/shortcuts/default
	Provide an option for retaining the view when changing 2D/arb line sections in the frame controller (hold Shift-key when clicking the load button) - also implemented as hot-keys for previous and next sections in section viewers: Shift+.& Shift+.		
<2082>	OPENWORKS LINKS:	bin.Linux3/ow2003_12_wellio	
		bin.Linux/ow2003_12_wellio	
	R2003.12 well loader crashes when importing to a depth project.		

<b>Patch 6.053</b>	07/06/11	TrapTester Patch Release (Solaris/Linux/Interix)	
<b><i>Bug Fixes/Enhancements</i></b>			
<i>ID No.</i>	<i>MODULE:</i>	<i>FILES</i>	
<2084>	TRAPTESTER:	scripts/starttt	scripts/lmadmin
	TrapTester fails to start when configured against Geoframe IESX.		
<2085>	FACIT MODULE:	bin.*/fasit	
	Issue with saving/loading sessions between 32 & 64-bit TrapTester.		

<b>Patch 6.054</b>		14/06/11	TrapTester Patch Release (Solaris/Linux/Interix)	
<b>Bug Fixes/Enhancements</b>				
<b>ID No.</b>	<b>MODULE:</b>	<b>FILES</b>		
<2083-E>	VOLUME EDITOR:	bin*/vol_ed	lib*/libBOGL.so	
	Add user-controls for "glide-to-view" function under the "Viewer Properties" advanced tab. Also implement "glide-to-view" for the previous/next view functions in the viewer tool-bar.			
<2086>	FAULTED:	lib*/libGEOS.so		
	Fix for multiply intersected observation surfaces which are generated for faults with very large displacements.			
<2087>	PETREL-IO:	bin*/petrel_imp		
	Potential crash during import with very long object names (>127 chars).			
<2089-E>	TT-TRANSGEN:	bin*/tgp_ed	lib*/libTG.so	
	Fault Zone Modelling Drag plugin extended with ability to define simple throw adjustments to fault traces.			
<2091-E>	SEISMIC TOOLS:	bin*/bgl_create		
	BGL volume creation has been extended with an option to allow proximity volumes to be created in "horizon sandwich" mode. This will set the proximity value in the output volume to the minimum value at all locations between input horizon surfaces. This permits 3D seismic data to be clipped to the upper and lower horizons when viewed in CubeXplorer's volume-render mode.			