



CADfix 12SP1 Data Exchange Fix Change Notes

Change Notes for CADfix 12SP1 as a brief summary of each fix arranged under their respective Problem report number(s):

	Fix a couple of places where the special filename <new> needs to be handled to suppress unhelpful</new>
28655	messages
28603	J / /
28559	' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '
28527	Parasolid export should be using the Parasolid knot tolerance to compute NURBS knot multiplicities
28459	Truncating closed NURBS curves needs to be more careful
20420	The standard FileSelect code now attempts to change just the file extension when the file type is
28428	changed. Don't open the rarely used perpendicular pick list if you have some faces selected when you open the
28424	delete features tool
20727	Make the file save dialog ask for confirmation in save mode. Add new -overwrite option to skip this
28400	question if not needed
28361	
28330	
28329	Upgrade the create-by-sweep functions to allow sweep distances to be lower than GTOL.
	Truncate the NURBS line before reducing knots.
28259	Set the loop tracing seed and gate colours so we can see how the loop was created and forced
	Extend the rotate-as-wireframe to support an 'Auto' mode that drops to wireframe for segments that
28224	take 'too long' to render
2022:	Expose the new 'Auto' mode for the framerate control that drops to wireframe if image is slow to
28224	
20100	Allow an existing dvapp to be turned OFF while still preserving its priority level and not having to
20198	supply all its parameters again Switch drawing of point and node symbols to the databuffer so they use the much faster vgl 'pnt'
28182	primitive
	Add support for import SolidEdge models
	When the 1st surf or body is created in a model don't remove ELTY/MSTY settings on line and surfs
28162	Don't throw error on hyper-multiple knot, just go ahead an remove it.
	When opening a .frm file allow shared access so that we can open the same results database in more
28146	than 1 cadfix sesssion
28138	Add an optional pallet of extra selection tools that can be user configured.
	Fix the assembly tree unscale/unmirror code so that it removes any translation component before
	exploding the scal/mirror.
28035	Add MAXLENGTH option to FRGFIX DECIMATE. Expose the new 'Min. facet length' control in the export options dialogs for facet-based exports like
27996	STL, FBX, 3DS, etc
	Expose control over the LENMIN dvapp when generating facets for export.
27911	Expose control over the EEM III avapp when generating facets for export
27893	Add option controlling whether probe selection palette should be minimised
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27552	Exposed the new Creo import option to control if facets are imported for missing accelerator parts
27541	Fixed issue whereby an tool read from an external file (.ctl) was not named
	Make sure the Locale is set to standard 'C' before doing anything with pdelib as non-standard locales
27462	Optimise the very common action of SETR <set> ALL</set>
27394	fix missing '+' as continuation line character in nastran files.
27390	Additional fold test for MREF2D, using surface normals at the vertices shared by neighbouring facets.
27382	Changed the printing format for the histogram scale labels to use scientific number notation
27339	If line morphing fails in LSIM deform, try to fit a c-spline instead.
27316	Fixed GUI bug due to invalid widget path specification
27311	Must update the import options before scanning so cwc values are picked up
27311	The assembly tree scan no longer uses " chars around strings
27311	Add support for scanning the assembly tree from a V4 .model file. Re-structure the scanning code so it can be called from cwi
27291	Make the PROX2D dvapp work on zones.
	Infinite radius of curvature (i.e. planar) regions should not be treated as a failure in curv/turn dvapps,
2/255	aborting meshing Creo 5.0 export was not in Export menu, and also Creo 4.0 was showing the Native format when only
	5.0 can have that
27184	Modifications to speed up PROX2D DIVAPPS and others.
27165	Command to fix number of divisions on two sided faces.
27163	Added some error checking when writing a .bmap file to prevent bad output
27159	Self-intersecting loop fix was not fully fixing some cases where a t-junction split left duplicate lines in a face
	Don't write frog label when exporting an open frog as well as when exporting a closed frog
	Enable the swept and spun body building tools to redefine an existing body
	Enable the 'Collapse points' tool to pick free points to use in collapse ops
	Don't auto-WIPE the build set from display when still using Transform tools
27025	Add trap to catch testing a name that is too long.
27000	Added more display logic so that selected entities are displayed in more cases
27000	Re-instated reference to a pick set in transform split tools.
26982	Fixed issue where filtered items were still being processed
26974	GUI was expecting inch model to have units specified as 'IN' when should be 'INCH'
26941	Fixed issue with surface refit option 'Pick corners'.
26919	Fixed issue with box simplification of a group of components
26881	Modified the exact NURBS line joiner to skip over degenerate input lines.
26876	cwi did not properly support an input line being a combined line (ITSIDE).
26872	Write a warning if going through PRTEQ but no element quality tests are enabled
26872	PRTEQ now always calculates combined test values wrt current weights
26859	CWC file written by CADfix PPS was wrongly specifiying STEP when should be GenericSTEP
26840	Make sure the user's filename is actually what the wizard export process will use! Also update the attibute retention flags when loading a CWC file
20040	wizard settings need to be updated BEFORE you save the cwc else the current values are not recorded
26840	in the cwc
	Add missing STL, 3DX and FBX systems to the licensed list of exports for PPS
	Don't attempt to retrieve systemsMenu data if fam pid is 0
	Re-instate 2004 as a valid DXF export version
	fix infinite loop in msh3swp in rare sparse mesh condition.
26765	Changes to allow 'Scan this criterion' to work while recording a macro
26705	Added implementation of EQAL ORTH element quality test
	Added the three new quality tests to the PRNT EQT TEST <test> syntax</test>
26704	Added EQAL RADI test and EQAL ERIK test. See cases 26704 and 26703
	Fixed GUI error in 'modelTree;selectHidden' when list of hidden parts is empty
26649	
26647	'Match case' checkbutton now works when matching a label without a wildcard character
26646	When deleting entities in a component switch to delete-all action to also remove child entities
26643	When changing filetype of snapped image reset the file name
26642	Only allow FROG shapes to be selected in PPS mode when picktype is shapes
26611	Allow principal plane creation to work from user-specified coordinate. No tolerance ball displayed for PPS and other simplified products
26605 26601	
	Introduced new .cwc option 'purgeFiles' Look for far-field faces in the MDL- set, not ALL
	Reset some global variables when processing multiple models in batch
	Added an additional refinement stage in MREF2D for DELQ with expansion factor
	LSIM to ARC now uses new ARCONLY option to ensure arc lines are created where possible
	Added PRNT ANG < line1> < line2> subcommand.
26251	Don't delete FLITE sources when deleting everything NOT selected
20231	When polygon pick stopped by a keypress event then extra care needed to restore previous popup
26132	
	Relax umbilic test when discriminant is negative.





25712	Verify that the user-entered export file name is correct before export.
25528	Corrected issue with small body deletion after some parts have been filtered
24759	New command, PRNT NAMES <type>, which prints all the names of a given type</type>
	Re-work the dashed line patch so we can draw high quality dashed lines (slow) or the original (faster)
21282	low quality dashed lines.
18649	Re-work the deletion logic to make it more consistent and body-friendly
16286	Add new IFC import system
3245	Remove FAMERRs when a NURBS fails to export to Parasolid.
2885	Add new VRML export. Similar controls and operation as for XGL.