## Release Notes LaGriT version 1.1, FALL 2003

A summary of the major changes found in this release are listed below. A complete list of changes is included at the end of this document. Refer to the user's manual for a complete description of the new, enhanced and revised commands.

## New Commands:

## none

08/22/03

cel\_chain

## **Enhanced Commands:**

<u>Enhanced Commands:</u>								
dump/zone_imt		ne_imt	output zone list file associted with imt values but do not output outside lists and multi- material connection lists.					
		s/interp	Add nodes to a mesh object by linear interpolation between two point sets					
	Bugs:							
	12/02/02	readgmv_ascii	fix problem with type 'lin'					
	01/01/03	refine_tet_add	Return gracefully if nadd=0.					
	02/05/03	eset	Bug in exclusive/pset get name . Bug resulted inincorrect result except in the case of tet's or quads. Fixed for all element types now.					
	03/25/03	matbld1	changed order in which work arrays are allocated and released so that they only exist when they are really needed. Changed the way row/column index pointers are sorted. Old method used a trick, but the trick fails when the number of nodes get larger than O(10**7). Change to use of a multi-key sort of the isortr and isorte arrays. Added some output to log files.					
	Code Chang	es:						
	03/21/03	mm2000	Added output at the end of mmprint to print out total amount of memory associated with memory managed arrays. Changed format in mmprint to allow larger integers.					
	03/25/03	readgmv_ascii	changed format so the ascii output can exceed 1million nodes					
		dumpgmv_hybrid Readgmv_binary	recognize amr variables itetpar, itetkid, itetlev as VINT.					
	04/24/03	recon, mode	add option to turn off recon					
	05/07/03	rzbrick3	Added options, fixed bugs, documented functionality in rzinterp sections of the code. This piece of code is nearly the same as the point interpolation code used in extrude, but since it required a lot of changes to get it working, I decided not to touch the code that extrude uses.					
	Bug Fixes:							
	05/07/03	rz	Fixed error that occured when createpts/line was a line aligned with the y or z axis. Error resulted in only cell centered point distributions. Now one can get correct results when ijz=1 and ikz=1.					
	05/12/03	sortbins	allow attributes of arbitrary length not just nnodes or nelements					
	05/21/03	cmo_setatt_nosb	use a longer format when printing a real acalar attribute					
	06/04/03	dump_material_list	fix format statement					
	06/12/03	radapt fillholes	initialie ctrl to zero					
	06/17/03 06/17/03	extract interface	skip holes whose number is greater than the current nelements value do not release cmo if it exists – this lost added attributes					
	06/17/03	recon2 nosb	pass iopt2to2 to try4to4xv so a s to be able to skip interface recons if desired					
	00/10/03	try4to4xv	pass repeated to dy no in the so d s to be dole to ship interface recons it desired					
	08/20/03	filter	In cases where the specified pset was empty the code would crash due to asking for zero length array. Put in error check to return if pset is empty set.					

initialize flag to zero