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Author(s): Solomon, Clell Jeffrey Jr.

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MCNP 6.2.0 Release Testing

MCNP Development Team

LANL, XCP-3

September 27, 2017

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1 Introduction

This document summarizes testing of MCNP®¹ 6.2.0 for various benchmark validation suites and regression testing results on various operating system (OS)/hardware combinations. Some of the herein summarized validation suites are included in the MCNP6 distribution: `KOBAYASHI`, `VALIDATION_CRIT_EXPANDED`, `VALIDATION_CRITICALITY`, `VALIDATION_SHIELDING`, `VERIFICATION_KEFF`, and `VERIFICATION_SHLD_SVDM`.

In addition to the verification and validation results presented herein, MCNP 6.2.0 is continuously regression tested by running around 1600 problems to verify consistent results (see Section 7 for more details on regression testing). This regression testing is performed serially, with OpenMP threading only, with MPI only, and with MPI and OpenMP threading combined.

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2 Nuclear Criticality Validation Suites

Several suites of verification/validation benchmark problems were run in early 2017 to verify that the new production release of MCNP 6.2.0 performs correctly for nuclear criticality safety applications (NCS). MCNP 6.2.0 results for several NCS validation suites were compared to the results from MCNP6.1 [1] and MCNP6.1.1 [2]. MCNP6.1 is the production version of MCNP released in 2013, and MCNP6.1.1 is the update released in 2014. MCNP 6.2.0 includes all of the standard features for NCS calculations that have been available for the past 15 years, along with new features for sensitivity-uncertainty based methods for NCS validation [3]. Results from the benchmark suites were compared with results from previous verification testing [4]–[8].

Several standard criticality benchmark suites were used for the verification calculations:

- **VERIFICATION_KEFF** A suite of criticality problems for which exact analytical results are available [9]–[11],
- **VALIDATION_CRITICALITY** 31 *ICSBEP* [12] problems, using ENDF/B-VII.1 [13],
- **VALIDATION_CRIT_EXPANDED** 119 *ICSBEP* problems, using ENDF/B-VII.1. [14]

Detailed results from the MCNP 6.2.0 verification calculations for NCS are reported in Reference [15]. Over 1.5×10^9 active neutrons were run in the course of those calculations. The principal conclusion from the extensive NCS testing is that MCNP 6.2.0 performs correctly, in that results for nearly all problems match results from MCNP6.1 and MCNP6.1.1. In a very few cases, results for MCNP 6.2.0 differ by about 1 standard-deviation or less due to known bug fixes ($S(\alpha, \beta)$ numerics; coincident surface treatment) or compiler differences (Intel-12 for previous versions vs. Intel 17 for MCNP 6.2.0). No unusual or unexplained differences were found. In addition, MCNP 6.2.0 was found to run about twice as fast as MCNP6.1 for NCS applications. MCNP 6.2.0 is as correct, robust, and reliable for NCS applications as MCNP5, MCNP6.1, and MCNP6.1.1.

3 Kobayashi Benchmark Suite

The Kobayashi benchmark suite [16] was created primarily to evaluate the accuracy of three-dimensional deterministic radiation transport codes using one-group fixed-source problems capable of being solved analytically. As such, it consists of three geometric configurations characterized by a uniform volumetric isotropic source within a void region within a shield region where the source and shield are composed of a purely absorbing material or a material that is 50% absorbing and 50% scattering. The benchmark flux solutions in the pure absorber cases were calculated directly using numeric integration whereas the 50/50 flux solutions were obtained using long-running Monte Carlo calculations performed with the GMVP code [16], [17].

In [16], each of the benchmark problems is defined using reflective boundaries along the cardinal planes thus representing one-eighth of a physical volume surrounded by a vacuum boundary. MCNP6 cannot use reflecting boundaries with point detectors. Hence, all MCNP6 geometries are defined for all eight octants and surrounded by a vacuum.

Previous work [18] analyzed the Kobayashi benchmarks with MCNP5 using MCNP’s traditional CSG system and multi-group (MG) cross sections. This work has become MCNP’s Kobayashi V&V suite and is available with the RSICC distribution for MCNP6. In summary, this suite tests neutron tracking with point detectors and multi-group cross sections where direct comparisons can be made to analytic results for some results; comparisons to published [16] Monte Carlo results from the GMVP code can be made for other results where analytical results do not exist.

For the MCNP 6.2.0 release, the Kobayashi V&V test suite was run with the OpenMP version of MCNP 6.2.0 built with Intel 17.0.1 and GCC 4.4.7 on a Linux RHEL 6 desktop system (Xeon® CPU E5-1607 v3 @

3.1 GHz). This suite was also run with the RSICC versions of 6.1.0 and 6.1.1 under the same conditions. Calculations were repeated with 1, 2, and 4 threads for all. In all cases the result were consistent with previous MCNP releases.

4 Shielding Verification Suite

The Shielding Verification Test Suite contains 78 shielding inputs provided by [19]. Measurement benchmark values were not provided with inputs, however plots of the measurements can be found in the reference. This test suite is located in the Testing/VERIFICATION_SHLD_SVDM directory. See the file ‘About_the_tests’ for more information regarding the tests.

The ensemble test suite is used as a “verification” suite in the sense of version-to-version comparison. The purpose is to determine how the test results compare with various versions of MCNP, starting with MCNP5 1.60. It is also used to compare results from different cross section data sets. The original baseline results were created by running MCNP5 1.60 with the ENDF/B VII.0 cross section data (xsdir=xsdir_2012-01-06), with the mctal files stored in the Results_ENDF7.0_MCNP5 subdirectory.

To perform the verification of MCNP 6.2.0 the test suite was run 3 times:

- #. MCNP 6.2.0 using ENDF/B VII.0 cross section data (xsdir=xsdir_2012-01-06)
- #. MCNP5 1.60 using ENDF/B-VII.1 cross section data (the current default data)
- #. MCNP 6.2.0 using ENDF/B-VII.1 cross section data (the current default data)

The results of tests that used the same cross section data were plotted and compared. There were no significant differences between MCNP 6.2.0 and MCNP5 1.60 for both data sets. MCNP 6.2.0 is verified that it provides essentially the same results and MCNP5 1.60. A summary of the results is available through the ABOUT_MCNP.html file in the MCNP 6.2.0 release (post installation).

5 Shielding Validation Suite

The MCNP Shielding Validation Suite contains models of 18 benchmark experiments [20]. The suite consists of 11 cases of the Livermore Pulsed Spheres, five cases of the Fusion Shielding experiments, and two photon experiments. The photon experiments are a skyshine experiment and an air-over-ground experiment. All of the benchmarks were run with MCNP 6.2.0 and compared to both the experimental and the MCNP5 results. Except for the higher energies of the fusion shielding spectra, which have poor statistics to begin with, the MCNP5 and MCNP 6.2.0 results are essentially the same. Therefore, the MCNP 6.2.0 results for the shielding validation suite are found to be consistent with previous releases of MCNP. Readers interested in details of the results are referred to [20] and a summary of comparisons is available through the ABOUT_MCNP.html file in the MCNP 6.2.0 release (post installation).

6 Electron-Photon Validation Suite

A new MCNP 6.2.0 electron-photon transport validation emphasizes two experimental benchmarks: (1) the Lockwood energy-deposition experiment [21] and (2) a thin foil multiple-elastic scattering experiment [22] (see MCNP 6.2.0 reference collection for publications). Both experimental validations tested the condensed history and single-event electron transport algorithms, and to a lesser-degree the photon transport algorithm because the experiments included only electron sources. The Lockwood validation test studied energy deposition in 1-D slabs of various elemental materials including low-Z and high-Z materials. The energy regime covered in the Lockwood experiment ranged from 0.05-MeV to 1.0-MeV. The multiples-scattering validation test studied

angular distributions of electrons emerging from thin foils composed of elemental materials from low-Z to high-Z, and electron source energies included were 13- and 20-MeV.

MCNP 6.2.0 agreement with the Lockwood experiment was comparable to published validations of other codes such as ITS and Geant4. However, MCNP 6.2.0 tended to show greater disagreement with experimental results from the multiple-scattering experiment when compared with codes such as EGS, Geant4, and PENELOPE. These results seem to indicate that MCNP 6.2.0 is less-performant when computing differential quantities, but interchangeable with other codes when used to compute integral quantities. [23], [24]

MCNP 6.2.0 validation efforts are on-going and will expand into other areas such as charge deposition, bremsstrahlung production, and other photon dominated transport validation studies like those completed by Gierga and Adams in the late 90's.

7 Installation Testing of MCNP 6.2.0

MCNP 6.2.0 uses template-based regression testing to ensure changes to the code do not adversely affect (change) baseline answers it is expected to produce. This method of testing is subject to differences that can arise from different OS/hardware combinations performing computations in slightly different manners. The baseline template files to be used when testing MCNP 6.2.0 on Linux and Mac OSX are produced using the Intel Fortran compiler (version 17.0.1) and the GNU C/C++ compilers (version 5.3.0) with OpenMP threading on Linux (essentially Red Hat Enterprise Linux 6) with Intel® Xeon® processors. The baseline template files to be used when testing MCNP 6.2.0 on Windows are produced using the Intel Fortran compiler (version 17.0.1) and the Microsoft Visual C/C++ compiler (version 19.00.24210) with OpenMP threading on Windows 7.0 Professional Service Pack 1 with Intel® Xeon® processors.

MCNP 6.2.0 ships with a set of installation tests to test the successful installation of MCNP on users' system. **The precompiled binaries for Linux, Mac OS X, and Windows that are shipped as part of the MCNP 6.2.0 distribution have been vetted to produce answers expected by the MCNP development team.** The installation tests that are part of the MCNP 6.2.0 installation process should run successfully and report no differences, or only very minor differences 10-100s of bytes, with the baseline templates provided in the installation. If the installation tests produce substantial differences with the expected baseline installation test results, the installation has likely failed and users should restart the installation process from the beginning.

The following sections serve to summarize the prebuilt installation executable build configurations and the baseline differences they are expected to produce

7.1 Linux (RHEL 6), Intel Xeon, Intel Fortran 17.0.1, GNU C/C++ 5.3.0

Quantity	Value
OS	Red Hat Enterprise Linux workstation 6.8 (Santiago)
Processor	Intel(R) Xeon(R) CPU E5-2670 0 @ 2.60GHz
Fortran Compiler	Intel Fortran 17.0.1
C/C++ Compiler	GNU 5.3.0
OpenMP Thread Enabled	Yes
MPI Version (if Enabled)	N/A
# Test MPI Tasks	0
# Test OpenMP Threads	1

Expected REGRESSION suite output diffs:

No differences expected.

7.2 OS X 10.11.6, Intel XEON, Intel Fortran 17.0.3, Apple Clang 8.0.0

Quantity	Value
OS	OS X 10.11.6 (El Capitan)
Processor	3.7 GHz Quad-Core Intel Xeon E5
Fortran Compiler	Intel Fortran 17.0.3
C/C++ Compiler	Apple Clang 8.0.0
OpenMP Thread Enabled	Yes
MPI Version (if Enabled)	N/A
# Test MPI Tasks	0
# Test OpenMP Threads	1

Expected REGRESSION suite output diffs:

No differences expected.

7.3 Windows 7 Enterprise SP1 (Cygwin64), Intel Xeon, Intel Fortran 17.0.1, Intel C/C++ 17.0.1

Quantity	Value
OS	Windows 7 Enterprise SP 1 (Cygwin64)
Processor	Xeon(R) CPU E5-2650 v3 @ 2.30GHz & Xeon(R) X5650 @ 2.67GHz
Fortran Compiler	Intel Fortran 17.0.1
C/C++ Compiler	Intel 17.0.1
OpenMP Thread Enabled	Yes
MPI Version (if Enabled)	N/A
# Test MPI Tasks	0
# Test OpenMP Threads	1

Expected REGRESSION suite output diffs for *E5-2650 v3*:

	OUTP	MCTAL	WWOUT	PLOT/ PTRAC	TEXT1/ MESHTAL	TEXT2/ EEOUT	TEXT3/ GMV
CASE	diff	diff	diff	diff	diff	diff	diff
inp1009	-	-	-	-	-	43	-

Expected REGRESSION suite output diffs for *X5650*:

No expected differences.

7.4 Windows 7 Enterprise SP1 (Cygwin64), Intel Xeon, Intel Fortran 17.0.1, MSVC C/C++ 19.00.24210

Quantity	Value
OS	Windows 7 Enterprise SP 1 (Cygwin64)
Processor	Xeon(R) CPU E5-2650 v3 @ 2.30GHz & Xeon(R) X5650 @ 2.67GHz
Fortran Compiler	Intel Fortran 17.0.1
C/C++ Compiler	MSVC 19.00.24210
OpenMP Thread Enabled	Yes
MPI Version (if Enabled)	N/A
# Test MPI Tasks	0
# Test OpenMP Threads	1
Note	Built with MS Visual Studio 2014

Expected REGRESSION suite output diffs for *E5-2650 v3*:

	OUTP	MCTAL	WWOUT	PLOT/ PTRAC	TEXT1/ MESHTAL	TEXT2/ EEOUT	TEXT3/ GMV
CASE	diff	diff	diff	diff	diff	diff	diff
inp1009	-	-	-	-	-	43	-

Expected REGRESSION suite output diffs for *X5650*:

No expected differences.

8 Testing of MCNP 6.2.0 when Compiled by Users

The results reported in this section are the results of running MCNP 6.2.0's REGRESSION test suite on the various OS/hardware combinations. The purpose of these results is to provide users **compiling** MCNP 6.2.0 with a set of baseline differences ("diffs") that **might** be observed on different OS/hardware combinations. The results in this document are non-exhaustive, as it would be intractable for the development team to test MCNP 6.2.0 on all possible OS/hardware combinations; rather, they are intended to provide the user with some known baseline differences for comparison to those on the user's system.

The presence of diffs after running the REGRESSION test suite should not immediately cause the user to suspect compilation problems. Diffs, if any, should be compared to diffs reported for the same or similar OS/hardware combinations below. Typically, diffs resulting from round-off precision issues will be on the order of a few hundred bytes to a few thousand bytes. The user is encouraged to investigate larger diffs to determine whether or not they do result from round-off precision issues (i.e., by examining the last few digits of floating point numbers in the template file and their test file). Occasionally, much larger differences will occur because slight changes in precision lead to altered use of the random number sequence, and such differences are generally much harder to track down.

8.1 Linux (RHEL 6), Intel Xeon, Intel Fortran 17.0.1, GNU C/C++ 5.3.0

Quantity	Value
OS	Red Hat Enterprise Linux workstation 6.8 (Santiago)
Processor	Intel(R) Xeon(R) CPU E5-2670 0 @ 2.60GHz
Fortran Compiler	Intel Fortran 17.0.1
C/C++ Compiler	GNU 5.3.0
OpenMP Thread Enabled	Yes
MPI Version (if Enabled)	N/A
# Test MPI Tasks	0
# Test OpenMP Threads	1

Expected REGRESSION suite output diffs:

No differences expected.

8.2 Linux (RHEL 6), AMD Opteron, Intel Fortran 15.0.5, Intel C/C++ 15.0.5

Quantity	Value
OS	Red Hat Enterprise Linux workstation 6.8 (Santiago)
Processor	AMD Opteron Processor 6328 @ 3.20GHz
Fortran Compiler	Intel Fortran 15.0.5
C/C++ Compiler	Intel C/C++ 15.0.5
OpenMP Thread Enabled	Yes
MPI Version (if Enabled)	N/A
# Test MPI Tasks	0
# Test OpenMP Threads	1

Expected REGRESSION suite output diffs:

CASE	OUTP	MCTAL	WWOUT	PLOT/ PTRAC	TEXT1/ MESHTAL	TEXT2/ EEOUT	TEXT3/ GMV
-----	diff	diff	diff	diff	diff	diff	diff
inp23	388	-	-	-	-	-	-

8.3 Linux (RHEL 6), Intel Xeon, GNU Fortran 6.1.0, GNU C/C++ 6.1.0

Quantity	Value
OS	Red Hat Enterprise Linux workstation 6.8 (Santiago)
Processor	Intel(R) Xeon(R) CPU E5-2650 v3 @ 2.30GHz
Fortran Compiler	GNU Fortran 6.1.0
C/C++ Compiler	GNU 6.1.0
OpenMP Thread Enabled	Yes
MPI Version (if Enabled)	N/A
# Test MPI Tasks	0
# Test OpenMP Threads	1

Expected REGRESSION suite output diffs:

CASE	OUTP diff	MCTAL diff	WWOUT diff	PLOT/ PTRAC diff	TEXT1/ MESHTAL diff	TEXT2/ EEOUT diff	TEXT3/ GMV diff
inp23	388						
inp87	222						
inp93	27944	1868					
inp94	386						
inp131					8498		
inp84	49423	9709					
inp110	49284	9710					
inp134	8778	5196					
inp135	2340	158					
inp1004	22920	1032			4648		
inp1008						55	
inp1009						55	
inp1011	872						
inp1015	20756	194				4510	
inp1018	47198	256			52661		
inp1030						292	
inp1031	2496					3188	
inp1034						442	
inp1035						152	
inp1055	1446						

8.4 Linux (RHEL 6), Intel Xeon, GNU Fortran 6.1.0, GNU C/C++ 6.1.0, OpenMPI 8 Tasks

Quantity	Value
OS	Red Hat Enterprise Linux workstation 6.8 (Santiago)
Processor	Intel(R) Xeon(R) CPU E5-2650 v3 @ 2.30GHz
Fortran Compiler	GNU Fortran 6.1.0
C/C++ Compiler	GNU 6.1.0
OpenMP Thread Enabled	Yes
MPI Version (if Enabled)	OpenMPI 1.6.5
# Test MPI Tasks	8
# Test OpenMP Threads	1

Expected REGRESSION suite output diffs:

CASE	OUTP diff	MCTAL diff	WWOUT diff	PLOT/ PTRAC diff	TEXT1/ MESHTAL diff	TEXT2/ EEOUT diff	TEXT3/ GMV diff
inp01	169						
inp02	203						
inp08	166						
inp14	42						
inp15	80						
inp16	42						
inp18	166						
inp22	80						
inp23	550						
inp24	42						
inp25	42						
inp29	80						
inp30	42						
inp31	42						
inp34	266						
inp38	82						
inp76	42						
inp77	42						
inp87	222						
inp92	452						
inp93	27816	1710					
inp94	382						
inp103	684						
inp104	904						
inp113	278						
inp114	138						
inp131					8498		
inp45	266						
inp48	266						
inp67	42						
inp68	42						
inp71	44						

inp84	49135	9549	
inp110	49000	9550	
inp125	1392		
inp130	42		
inp133	42		
inp134	8778	5196	
inp135	2324		
inp1004	22858	1032	4648
inp1008			69
inp1009			69
inp1011	1314		
inp1015	20722	194	4510
inp1018	46916	98	52661
inp1029			144
inp1030			292
inp1031	2476		3188
inp1034			442
inp1035			152
inp1055	1432		

8.5 Linux (RHEL 6), Intel Xeon, Intel Fortran 17.0.1, GNU C/C++ 5.3.0, 16 OpenMP Threads

Quantity	Value
OS	Red Hat Enterprise Linux workstation 6.8 (Santiago)
Processor	Intel(R) Xeon(R) CPU E5-2670 0 @ 2.60GHz
Fortran Compiler	Intel Fortran 17.0.1
C/C++ Compiler	GNU 5.3.0
OpenMP Thread Enabled	Yes
MPI Version (if Enabled)	N/A
# Test MPI Tasks	0
# Test OpenMP Threads	16

Expected REGRESSION suite output diffs:

__CASE__	OUTP diff	MCTAL diff	WWOUT diff	PLOT/ PTRAC diff	TEXT1/ MESHTAL diff	TEXT2/ EEOUT diff	TEXT3/ GMV diff
inp87	222	-	-	-	-	-	-
inp94	382	-	-	-	-	-	-
inp103	452	-	-	-	-	-	-
inp104	916	-	-	-	-	-	-
inp1008	-	-	-	-	-	69	-
inp1009	-	-	-	-	-	69	-
inp1011	452	-	-	-	-	-	-
inp1029	-	-	-	-	-	144	-
inp1039	190	-	-	-	-	-	-

8.6 Linux (RHEL 6), Intel Xeon, Intel Fortran 17.0.1, GNU C/C++ 5.3.0, OpenMPI 1.10.5 16 Tasks

Quantity	Value
OS	Red Hat Enterprise Linux workstation 6.8 (Santiago)
Processor	Intel(R) Xeon(R) CPU E5-2670 0 @ 2.60GHz
Fortran Compiler	Intel Fortran 17.0.1
C/C++ Compiler	GNU 5.3.0
OpenMP Thread Enabled	Yes
MPI Version (if Enabled)	OpenMPI 1.10.5
# Test MPI Tasks	16
# Test OpenMP Threads	1

Expected REGRESSION suite output diffs:

CASE	OUTP diff	MCTAL diff	WWOUT diff	PLOT/ PTRAC diff	TEXT1/ MESHTAL diff	TEXT2/ EEOUT diff	TEXT3/ GMV diff
inp01	169	-	-	-	-	-	-
inp02	203	-	-	-	-	-	-
inp08	166	-	-	-	-	-	-
inp14	42	-	-	-	-	-	-
inp15	80	-	-	-	-	-	-
inp16	42	-	-	-	-	-	-
inp18	166	-	-	-	-	-	-
inp22	80	-	-	-	-	-	-
inp23	166	-	-	-	-	-	-
inp24	42	-	-	-	-	-	-
inp25	42	-	-	-	-	-	-
inp29	80	-	-	-	-	-	-
inp30	42	-	-	-	-	-	-
inp31	42	-	-	-	-	-	-
inp34	266	-	-	-	-	-	-
inp38	82	-	-	-	-	-	-
inp76	42	-	-	-	-	-	-
inp77	42	-	-	-	-	-	-
inp94	382	-	-	-	-	-	-
inp103	452	-	-	-	-	-	-
inp104	684	-	-	-	-	-	-
inp113	278	-	-	-	-	-	-
inp114	138	-	-	-	-	-	-
inp45	266	-	-	-	-	-	-
inp48	266	-	-	-	-	-	-
inp49	266	-	-	-	-	-	-
inp67	42	-	-	-	-	-	-
inp68	42	-	-	-	-	-	-
inp71	44	-	-	-	-	-	-
inp119	266	-	-	-	-	-	-
inp125	1392	-	-	-	-	-	-
inp130	42	-	-	-	-	-	-

inp133	42	-	-	-	-	-	-
inp1008	-	-	-	-	-	69	-
inp1009	-	-	-	-	-	69	-
inp1011	452	-	-	-	-	-	-
inp1029	-	-	-	-	-	144	-

8.7 Linux (RHEL 6), Intel Xeon, Intel Fortran 17.0.1, GNU C/C++ 5.3.0, OpenMPI 1.10.5 4 Tasks, 4 OpenMP Threads

Quantity	Value
OS	Red Hat Enterprise Linux workstation 6.8 (Santiago)
Processor	Intel(R) Xeon(R) CPU E5-2670 0 @ 2.60GHz
Fortran Compiler	Intel Fortran 17.0.1
C/C++ Compiler	GNU 5.3.0
OpenMP Thread Enabled	Yes
MPI Version (if Enabled)	OpenMPI 1.10.5
# Test MPI Tasks	4
# Test OpenMP Threads	4

Expected REGRESSION suite output diffs:

CASE	OUTP diff	MCTAL diff	WWOUT diff	PLOT/ PTRAC diff	TEXT1/ MESHTAL diff	TEXT2/ EEOUT diff	TEXT3/ GMV diff
inp01	169	-	-	-	-	-	-
inp02	203	-	-	-	-	-	-
inp08	166	-	-	-	-	-	-
inp14	42	-	-	-	-	-	-
inp15	80	-	-	-	-	-	-
inp16	42	-	-	-	-	-	-
inp18	166	-	-	-	-	-	-
inp22	80	-	-	-	-	-	-
inp23	166	-	-	-	-	-	-
inp24	42	-	-	-	-	-	-
inp25	42	-	-	-	-	-	-
inp29	80	-	-	-	-	-	-
inp30	42	-	-	-	-	-	-
inp31	42	-	-	-	-	-	-
inp38	82	-	-	-	-	-	-
inp76	42	-	-	-	-	-	-
inp77	42	-	-	-	-	-	-
inp87	222	-	-	-	-	-	-
inp94	382	-	-	-	-	-	-
inp97	266	-	-	-	-	-	-
inp103	916	-	-	-	-	-	-
inp104	1136	-	-	-	-	-	-
inp113	278	-	-	-	-	-	-
inp114	138	-	-	-	-	-	-
inp45	266	-	-	-	-	-	-
inp48	266	-	-	-	-	-	-
inp49	266	-	-	-	-	-	-
inp50	266	-	-	-	-	-	-
inp67	42	-	-	-	-	-	-
inp68	42	-	-	-	-	-	-
inp71	44	-	-	-	-	-	-
inp125	1392	-	-	-	-	-	-

inp130	42	-	-	-	-	-	-
inp133	42	-	-	-	-	-	-
inp134	722	-	-	-	-	-	-
inp1008	-	-	-	-	-	69	-
inp1009	-	-	-	-	-	69	-
inp1011	452	-	-	-	-	-	-
inp1029	-	-	-	-	-	144	-

8.8 Linux (RHEL 6), Intel Xeon, Portland 15.10, GNU C/C++ 4.4.7

Quantity	Value
OS	Red Hat Enterprise Linux workstation 6.8 (Santiago)
Processor	Intel(R) Xeon(R) CPU E5-2670 0 @ 2.60GHz
Fortran Compiler	Portland 15.10
C/C++ Compiler	GNU 4.4.7
OpenMP Thread Enabled	Yes
MPI Version (if Enabled)	N/A
# Test MPI Tasks	0
# Test OpenMP Threads	1

Expected REGRESSION suite output diffs:

CASE	OUTP diff	MCTAL diff	WWOUT diff	PLOT/ PTRAC diff	TEXT1/ MESHTAL diff	TEXT2/ EEOUT diff	TEXT3/ GMV diff
inp23	384	-	-	-	-	-	-
inp87	222	-	-	-	-	-	-
inp93	27816	1710	-	-	-	-	-
inp94	382	-	-	-	-	-	-
inp131	-	-	-	-	8498	-	-
inp74	104093	12850	-	-	-	-	-
inp84	49135	9549	-	-	-	-	-
inp109	99708	12238	-	-	-	-	-
inp110	49000	9550	-	-	-	-	-
inp134	8778	5196	-	-	-	-	-
inp135	2324	-	-	-	-	-	-
inp1004	22858	1032	-	-	-	4648	-
inp1008	-	-	-	-	-	69	-
inp1009	-	-	-	-	-	69	-
inp1011	1392	-	-	-	-	-	-
inp1015	20722	194	-	-	-	4510	-
inp1018	48493	154	-	-	-	52821	-
inp1030	-	-	-	-	-	292	-
inp1031	2476	-	-	-	-	3188	-
inp1034	-	-	-	-	-	1172	-
inp1054	232	-	-	-	-	-	-

8.9 Linux (RHEL 7), Intel Xeon, GNU Fortran 5.3.0, GNU C/C++ 5.3.0

Quantity	Value
OS	Linux Red Hat Enterprise Linux 7 version 7.3
Processor	Intel(R) Xeon(R) CPU E5-2687W v4 @ 3.00GHz
Fortran Compiler	GNU Fortran 5.3.0
C/C++ Compiler	GNU 5.3.0
OpenMP Thread Enabled	Yes
MPI Version (if Enabled)	N/A
# Test MPI Tasks	0
# Test OpenMP Threads	1

Expected REGRESSION suite output diffs:

CASE	OUTP diff	MCTAL diff	WWOUT diff	PLOT/ PTRAC diff	TEXT1/ MESHTAL diff	TEXT2/ EEOUT diff	TEXT3/ GMV diff
inp23	388	-	-	-	-	-	-
inp87	222	-	-	-	-	-	-
inp93	27944	1868	-	-	-	-	-
inp94	386	-	-	-	-	-	-
inp131	-	-	-	-	8498	-	-
inp84	49423	9709	-	-	-	-	-
inp110	49284	9710	-	-	-	-	-
inp134	8778	5196	-	-	-	-	-
inp135	2340	158	-	-	-	-	-
inp1004	22920	1032	-	-	-	4648	-
inp1008	-	-	-	-	-	55	-
inp1009	-	-	-	-	-	55	-
inp1011	872	-	-	-	-	-	-
inp1015	20756	194	-	-	-	4510	-
inp1018	47198	256	-	-	-	52661	-
inp1030	-	-	-	-	-	292	-
inp1031	2496	-	-	-	-	3188	-
inp1034	-	-	-	-	-	442	-
inp1035	-	-	-	-	-	152	-
inp1055	1446	-	-	-	-	-	-

8.10 Linux (RHEL 7), Intel Xeon, GNU Fortran 5.3.0, GNU C/C++ 5.3.0, 12 OpenMP Threads

Quantity	Value
OS	Linux Red Hat Enterprise Linux 7 version 7.3
Processor	Intel(R) Xeon(R) CPU E5-2687W v4 @ 3.00GHz
Fortran Compiler	GNU Fortran 5.3.0
C/C++ Compiler	GNU 5.3.0
OpenMP Thread Enabled	Yes
MPI Version (if Enabled)	N/A
# Test MPI Tasks	0
# Test OpenMP Threads	12

Expected REGRESSION suite output diffs:

CASE	OUTP diff	MCTAL diff	WWOUT diff	PLOT/ PTRAC diff	TEXT1/ MESHTAL diff	TEXT2/ EEOUT diff	TEXT3/ GMV diff
inp23	384	-	-	-	-	-	-
inp87	222	-	-	-	-	-	-
inp92	452	-	-	-	-	-	-
inp93	27816	1710	-	-	-	-	-
inp94	382	-	-	-	-	-	-
inp103	452	-	-	-	-	-	-
inp104	684	-	-	-	-	-	-
inp131	-	-	-	-	8498	-	-
inp84	49135	9549	-	-	-	-	-
inp110	49000	9550	-	-	-	-	-
inp134	8778	5196	-	-	-	-	-
inp135	2324	-	-	-	-	-	-
inp1004	22858	1032	-	-	-	4648	-
inp1008	-	-	-	-	-	69	-
inp1009	-	-	-	-	-	69	-
inp1011	1314	-	-	-	-	-	-
inp1015	20722	194	-	-	-	4510	-
inp1018	46916	98	-	-	-	52661	-
inp1029	-	-	-	-	-	144	-
inp1030	-	-	-	-	-	292	-
inp1031	2476	-	-	-	-	3188	-
inp1034	-	-	-	-	-	442	-
inp1035	-	-	-	-	-	152	-
inp1039	190	-	-	-	-	-	-
inp1055	1432	-	-	-	-	-	-

8.11 Linux (RHEL 7), Intel Xeon, GNU Fortran 5.3.0, GNU C/C++ 5.3.0, 48 OpenMP Threads

Quantity	Value
OS	Linux Red Hat Enterprise Linux 7 version 7.3
Processor	Intel(R) Xeon(R) CPU E5-2687W v4 @ 3.00GHz
Fortran Compiler	GNU Fortran 5.3.0
C/C++ Compiler	GNU 5.3.0
OpenMP Thread Enabled	Yes
MPI Version (if Enabled)	N/A
# Test MPI Tasks	0
# Test OpenMP Threads	48

Expected REGRESSION suite output diffs:

CASE	OUTP diff	MCTAL diff	WWOUT diff	PLOT/ PTRAC diff	TEXT1/ MESHTAL diff	TEXT2/ EEOOUT diff	TEXT3/ GMV diff
inp23	384	-	-	-	-	-	-
inp87	222	-	-	-	-	-	-
inp93	27816	1710	-	-	-	-	-
inp94	382	-	-	-	-	-	-
inp103	452	-	-	-	-	-	-
inp104	684	-	-	-	-	-	-
inp131	-	-	-	-	8498	-	-
inp45	734	-	-	-	-	-	-
inp48	452	-	-	-	-	-	-
inp49	452	-	-	-	-	-	-
inp84	49135	9549	-	-	-	-	-
inp110	49000	9550	-	-	-	-	-
inp134	8778	5196	-	-	-	-	-
inp135	2324	-	-	-	-	-	-
inp1004	22858	1032	-	-	-	4648	-
inp1008	-	-	-	-	-	69	-
inp1009	-	-	-	-	-	69	-
inp1011	1316	-	-	-	-	-	-
inp1015	20722	194	-	-	-	4510	-
inp1018	46916	98	-	-	-	52661	-
inp1029	-	-	-	-	-	144	-
inp1030	-	-	-	-	-	292	-
inp1031	2476	-	-	-	-	3188	-
inp1034	-	-	-	-	-	442	-
inp1035	-	-	-	-	-	152	-
inp1039	190	-	-	-	-	-	-
inp1055	1432	-	-	-	-	-	-

8.12 Linux (RHEL 7), Intel Xeon, GNU Fortran 6.1.0, GNU C/C++ 6.1.0

Quantity	Value
OS	Linux Red Hat Enterprise Linux 7 version 7.3
Processor	Intel(R) Xeon(R) CPU E5-2687W v4 @ 3.00GHz
Fortran Compiler	GNU Fortran 6.1.0
C/C++ Compiler	GNU 6.1.0
OpenMP Thread Enabled	Yes
MPI Version (if Enabled)	N/A
# Test MPI Tasks	0
# Test OpenMP Threads	1

Expected REGRESSION suite output diffs:

CASE	OUTP diff	MCTAL diff	WWOUT diff	PLOT/ PTRAC diff	TEXT1/ MESHTAL diff	TEXT2/ EEOUT diff	TEXT3/ GMV diff
inp23	388	-	-	-	-	-	-
inp87	222	-	-	-	-	-	-
inp93	27944	1868	-	-	-	-	-
inp94	386	-	-	-	-	-	-
inp131	-	-	-	-	8498	-	-
inp84	49423	9709	-	-	-	-	-
inp110	49284	9710	-	-	-	-	-
inp134	8778	5196	-	-	-	-	-
inp135	2340	158	-	-	-	-	-
inp1004	22920	1032	-	-	-	4648	-
inp1008	-	-	-	-	-	55	-
inp1009	-	-	-	-	-	55	-
inp1011	872	-	-	-	-	-	-
inp1015	20756	194	-	-	-	4510	-
inp1018	47198	256	-	-	-	52661	-
inp1030	-	-	-	-	-	292	-
inp1031	2496	-	-	-	-	3188	-
inp1034	-	-	-	-	-	442	-
inp1035	-	-	-	-	-	152	-
inp1055	1446	-	-	-	-	-	-

8.13 Linux (RHEL 7), Intel Xeon, Intel Fortran 17.0.1, GNU C/C++ 5.3.0

Quantity	Value
OS	Linux Red Hat Enterprise Linux 7 version 7.3
Processor	Intel(R) Xeon(R) CPU E5-2695 v4 @ 2.10GHz
Fortran Compiler	Intel Fortran 17.0.1
C/C++ Compiler	GNU 5.3.0
OpenMP Thread Enabled	Yes
MPI Version (if Enabled)	N/A
# Test MPI Tasks	0
# Test OpenMP Threads	1

Expected REGRESSION suite output diffs:

__CASE__	OUTP diff	MCTAL diff	WWOUT diff	PLOT/ PTRAC diff	TEXT1/ MESHTAL diff	TEXT2/ EEOUT diff	TEXT3/ GMV diff
inp1009	-	-	-	-	-	43	-

8.14 Linux (RHEL 7), Intel Xeon, Intel Fortran 17.0.1, GNU C/C++ 5.3.0, 18 OpenMP Threads

Quantity	Value
OS	Linux Red Hat Enterprise Linux 7 version 7.3
Processor	Intel(R) Xeon(R) CPU E5-2695 v4 @ 2.10GHz
Fortran Compiler	Intel Fortran 17.0.1
C/C++ Compiler	GNU 5.3.0
OpenMP Thread Enabled	Yes
MPI Version (if Enabled)	N/A
# Test MPI Tasks	0
# Test OpenMP Threads	18

Expected REGRESSION suite output diffs:

__CASE__	OUTP diff	MCTAL diff	WWOUT diff	PLOT/ PTRAC diff	TEXT1/ MESHTAL diff	TEXT2/ EEOOUT diff	TEXT3/ GMV diff
inp87	222	-	-	-	-	-	-
inp94	382	-	-	-	-	-	-
inp103	452	-	-	-	-	-	-
inp104	916	-	-	-	-	-	-
inp1008	-	-	-	-	-	69	-
inp1009	-	-	-	-	-	69	-
inp1011	452	-	-	-	-	-	-
inp1039	190	-	-	-	-	-	-

8.15 Linux (RHEL 7), Intel Xeon, Intel Fortran 17.0.1, GNU C/C++ 5.3.0, 36 OpenMP Threads

Quantity	Value
OS	Linux Red Hat Enterprise Linux 7 version 7.3
Processor	Intel(R) Xeon(R) CPU E5-2695 v4 @ 2.10GHz
Fortran Compiler	Intel Fortran 17.0.1
C/C++ Compiler	GNU 5.3.0
OpenMP Thread Enabled	Yes
MPI Version (if Enabled)	N/A
# Test MPI Tasks	0
# Test OpenMP Threads	36

Expected REGRESSION suite output diffs:

__CASE__	OUTP diff	MCTAL diff	WWOUT diff	PLOT/ PTRAC diff	TEXT1/ MESHTAL diff	TEXT2/ EEOOUT diff	TEXT3/ GMV diff
inp94	382	-	-	-	-	-	-
inp103	452	-	-	-	-	-	-
inp104	684	-	-	-	-	-	-
inp1008	-	-	-	-	-	69	-
inp1009	-	-	-	-	-	69	-
inp1011	452	-	-	-	-	-	-
inp1029	-	-	-	-	-	144	-

8.16 Linux (RHEL 7), Intel Xeon, Intel Fortran 17.0.1, GNU C/C++ 5.3.0, OpenMPI 1.10.5 36 Tasks

Quantity	Value
OS	Linux Red Hat Enterprise Linux 7 version 7.3
Processor	Intel(R) Xeon(R) CPU E5-2695 v4 @ 2.10GHz
Fortran Compiler	Intel Fortran 17.0.1
C/C++ Compiler	GNU 5.3.0
OpenMP Thread Enabled	Yes
MPI Version (if Enabled)	OpenMPI 1.10.5
# Test MPI Tasks	36
# Test OpenMP Threads	1

Expected REGRESSION suite output diffs:

CASE	OUTP diff	MCTAL diff	WWOUT diff	PLOT/ PTRAC diff	TEXT1/ MESHTAL diff	TEXT2/ EEOUT diff	TEXT3/ GMV diff
inp01	169	-	-	-	-	-	-
inp02	203	-	-	-	-	-	-
inp08	166	-	-	-	-	-	-
inp14	42	-	-	-	-	-	-
inp15	80	-	-	-	-	-	-
inp16	42	-	-	-	-	-	-
inp18	166	-	-	-	-	-	-
inp22	80	-	-	-	-	-	-
inp23	166	-	-	-	-	-	-
inp24	42	-	-	-	-	-	-
inp25	42	-	-	-	-	-	-
inp29	80	-	-	-	-	-	-
inp30	42	-	-	-	-	-	-
inp31	42	-	-	-	-	-	-
inp38	82	-	-	-	-	-	-
inp76	42	-	-	-	-	-	-
inp77	42	-	-	-	-	-	-
inp94	382	-	-	-	-	-	-
inp103	452	-	-	-	-	-	-
inp104	684	-	-	-	-	-	-
inp113	278	-	-	-	-	-	-
inp114	138	-	-	-	-	-	-
inp45	266	-	-	-	-	-	-
inp48	266	-	-	-	-	-	-
inp67	42	-	-	-	-	-	-
inp68	42	-	-	-	-	-	-
inp71	44	-	-	-	-	-	-
inp125	1392	-	-	-	-	-	-
inp130	42	-	-	-	-	-	-
inp133	42	-	-	-	-	-	-
inp134	266	-	-	-	-	-	-
inp1008	-	-	-	-	-	69	-

inp1009	-	-	-	-	-	69	-
inp1011	452	-	-	-	-	-	-
inp1029	-	-	-	-	-	144	-

8.17 Linux (RHEL 7), Intel Xeon, Intel Fortran 17.0.1, GNU C/C++ 5.3.0, OpenMPI 1.10.5 9 Tasks, 4 OpenMP Threads

Quantity	Value
OS	Linux Red Hat Enterprise Linux 7 version 7.3
Processor	Intel(R) Xeon(R) CPU E5-2695 v4 @ 2.10GHz
Fortran Compiler	Intel Fortran 17.0.1
C/C++ Compiler	GNU 5.3.0
OpenMP Thread Enabled	Yes
MPI Version (if Enabled)	OpenMPI 1.10.5
# Test MPI Tasks	9
# Test OpenMP Threads	4

Expected REGRESSION suite output diffs:

CASE	OUTP diff	MCTAL diff	WWOUT diff	PLOT/ PTRAC diff	TEXT1/ MESHTAL diff	TEXT2/ EEOU diff	TEXT3/ GMV diff
inp01	169	-	-	-	-	-	-
inp02	203	-	-	-	-	-	-
inp08	166	-	-	-	-	-	-
inp14	42	-	-	-	-	-	-
inp15	80	-	-	-	-	-	-
inp16	42	-	-	-	-	-	-
inp18	166	-	-	-	-	-	-
inp22	80	-	-	-	-	-	-
inp23	166	-	-	-	-	-	-
inp24	42	-	-	-	-	-	-
inp25	42	-	-	-	-	-	-
inp29	80	-	-	-	-	-	-
inp30	42	-	-	-	-	-	-
inp31	42	-	-	-	-	-	-
inp34	266	-	-	-	-	-	-
inp38	82	-	-	-	-	-	-
inp42	228	-	-	-	-	-	-
inp76	42	-	-	-	-	-	-
inp77	42	-	-	-	-	-	-
inp87	488	-	-	-	-	-	-
inp94	382	-	-	-	-	-	-
inp97	266	-	-	-	-	-	-
inp103	452	-	-	-	-	-	-
inp104	684	-	-	-	-	-	-
inp113	278	-	-	-	-	-	-
inp114	138	-	-	-	-	-	-
inp45	266	-	-	-	-	-	-
inp48	266	-	-	-	-	-	-
inp67	42	-	-	-	-	-	-
inp68	42	-	-	-	-	-	-
inp71	44	-	-	-	-	-	-
inp125	1392	-	-	-	-	-	-

inp130	42	-	-	-	-	-	-
inp133	42	-	-	-	-	-	-
inp134	266	-	-	-	-	-	-
inp1008	-	-	-	-	-	69	-
inp1009	-	-	-	-	-	69	-
inp1011	452	-	-	-	-	-	-
inp1015	266	-	-	-	-	-	-
inp1029	-	-	-	-	-	144	-

8.18 Linux (RHEL 7), Intel Xeon, Portland Fortran 16.9, GNU C/C++ 4.8.5

Quantity	Value
OS	Linux Red Hat Enterprise Linux 7 version 7.3
Processor	Intel(R) Xeon(R) CPU E5-4650 0 @ 2.70GHz
Fortran Compiler	Portland Fortran 16.9
C/C++ Compiler	GNU 4.8.5
OpenMP Thread Enabled	Yes
MPI Version (if Enabled)	N/A
# Test MPI Tasks	0
# Test OpenMP Threads	1

Expected REGRESSION suite output diffs:

CASE	OUTP diff	MCTAL diff	WWOUT diff	PLOT/ PTRAC diff	TEXT1/ MESHTAL diff	TEXT2/ EEOUT diff	TEXT3/ GMV diff
inp23	598	-	-	-	-	-	-
inp87	222	-	-	-	-	-	-
inp93	27944	1868	-	-	-	-	-
inp94	386	-	-	-	-	-	-
inp103	454	-	-	-	-	-	-
inp104	452	-	-	-	-	-	-
inp131	-	-	-	-	8498	-	-
inp74	104551	13010	-	-	-	-	-
inp84	49423	9709	-	-	-	-	-
inp109	100162	12398	-	-	-	-	-
inp110	49284	9710	-	-	-	-	-
inp134	8778	5196	-	-	-	-	-
inp135	2340	158	-	-	-	-	-
inp1004	22920	1032	-	-	-	4648	-
inp1008	-	-	-	-	-	55	-
inp1009	-	-	-	-	-	55	-
inp1011	1858	-	-	-	-	-	-
inp1015	20756	194	-	-	-	4510	-
inp1018	48822	312	-	-	-	52821	-
inp1030	-	-	-	-	-	292	-
inp1031	2496	-	-	-	-	3188	-
inp1034	-	-	-	-	-	1172	-
inp1054	232	-	-	-	-	-	-

8.19 Linux (Ubuntu 16.04 LTS), Intel Xeon, Intel Fortran 17.0.1, GNU C/C++ 4.8.2

Quantity	Value
OS	Ubuntu 16.04 LTS
Processor	Intel(R) Xeon(R) CPU E5-2650 v3 @ 2.30GHz
Fortran Compiler	Intel Fortran 17.0.1
C/C++ Compiler	GNU 4.8.2
OpenMP Thread Enabled	Yes
MPI Version (if Enabled)	N/A
# Test MPI Tasks	0
# Test OpenMP Threads	1

Expected REGRESSION suite output diffs:

No expected differences.

8.20 OS X 10.11.6, Intel XEON, Intel Fortran 17.0.3, Apple Clang 8.0.0

Quantity	Value
OS	OS X 10.11.6 (El Capitan)
Processor	3.7 GHz Quad-Core Intel Xeon E5
Fortran Compiler	Intel Fortran 17.0.3
C/C++ Compiler	Apple Clang 8.0.0
OpenMP Thread Enabled	Yes
MPI Version (if Enabled)	N/A
# Test MPI Tasks	0
# Test OpenMP Threads	1

Expected REGRESSION suite output diffs:

No differences expected.

8.21 OS X 10.11.6, Intel Core i7, GNU Fortran 6.3.0, GNU C/C++ 6.3.0, OpenMPI 2.1.0 3 Tasks, 2 OpenMP Threads

Quantity	Value
OS	OS X 10.11.6 (El Capitan)
Processor	3.1 GHz Intel Core i7
Fortran Compiler	GNU Fortran 6.3.0 (Homebrew)
C/C++ Compiler	GNU 6.3.0 (Homebrew)
OpenMP Thread Enabled	Yes
MPI Version (if Enabled)	OpenMPI 2.1.0 (Homebrew)
# Test MPI Tasks	3
# Test OpenMP Threads	2

Expected REGRESSION suite output diffs:

CASE	OUTP diff	MCTAL diff	WWOUT diff	PLOT/ PTRAC diff	TEXT1/ MESHTAL diff	TEXT2/ EEOUT diff	TEXT3/ GMV diff
inp01	169	-	-	-	-	-	-
inp02	203	-	-	-	-	-	-
inp08	166	-	-	-	-	-	-
inp14	42	-	-	-	-	-	-
inp15	80	-	-	-	-	-	-
inp16	42	-	-	-	-	-	-
inp18	166	-	-	-	-	-	-
inp22	80	-	-	-	-	-	-
inp23	550	-	-	-	-	-	-
inp24	42	-	-	-	-	-	-
inp25	42	-	-	-	-	-	-
inp29	80	-	-	-	-	-	-
inp30	42	-	-	-	-	-	-
inp31	42	-	-	-	-	-	-
inp38	82	-	-	-	-	-	-
inp76	46401	1336	-	-	-	-	-
inp77	42	-	-	-	-	-	-
inp87	222	-	-	-	-	-	-
inp93	27816	1710	-	-	-	-	-
inp94	382	-	-	-	-	-	-
inp103	916	-	-	-	-	-	-
inp104	684	-	-	-	-	-	-
inp113	278	-	-	-	-	-	-
inp114	138	-	-	-	-	-	-
inp131	-	-	-	-	8498	-	-
inp45	266	-	-	-	-	-	-
inp48	266	-	-	-	-	-	-
inp67	42	-	-	-	-	-	-
inp68	42	-	-	-	-	-	-
inp71	44	-	-	-	-	-	-
inp84	49135	9549	-	-	-	-	-
inp110	49000	9550	-	-	-	-	-

inp125	1392	-	-	-	-	-	-
inp130	42	-	-	-	-	-	-
inp133	42	-	-	-	-	-	-
inp134	8778	5196	-	-	-	-	-
inp135	2324	-	-	-	-	-	-
inp1004	22858	1032	-	-	-	4648	-
inp1008	-	-	-	-	-	69	-
inp1009	-	-	-	-	-	69	-
inp1011	1314	-	-	-	-	-	-
inp1015	20722	194	-	-	-	4510	-
inp1018	46399	98	-	-	-	56386	-
inp1029	-	-	-	-	-	144	-
inp1030	-	-	-	-	-	292	-
inp1031	2476	-	-	-	-	3188	-
inp1034	-	-	-	-	-	442	-
inp1035	-	-	-	-	-	152	-

8.22 OS X 10.11.6, Intel Core i7, GNU Fortran 6.3.0, GNU C/C++ 6.3.0, OpenMPI 2.1.0 4 Tasks

Quantity	Value
OS	OS X 10.11.6 (El Capitan)
Processor	3.1 GHz Intel Core i7
Fortran Compiler	GNU Fortran 6.3.0 (Homebrew)
C/C++ Compiler	GNU 6.3.0 (Homebrew)
OpenMP Thread Enabled	Yes
MPI Version (if Enabled)	OpenMPI 2.1.0 (Homebrew)
# Test MPI Tasks	4
# Test OpenMP Threads	1

Expected REGRESSION suite output diffs:

CASE	OUTP diff	MCTAL diff	WWOUT diff	PLOT/ PTRAC diff	TEXT1/ MESHTAL diff	TEXT2/ EEOUT diff	TEXT3/ GMV diff
inp01	169	-	-	-	-	-	-
inp02	203	-	-	-	-	-	-
inp08	166	-	-	-	-	-	-
inp14	42	-	-	-	-	-	-
inp15	80	-	-	-	-	-	-
inp16	42	-	-	-	-	-	-
inp18	166	-	-	-	-	-	-
inp22	80	-	-	-	-	-	-
inp23	550	-	-	-	-	-	-
inp24	42	-	-	-	-	-	-
inp25	42	-	-	-	-	-	-
inp29	80	-	-	-	-	-	-
inp30	42	-	-	-	-	-	-
inp31	42	-	-	-	-	-	-
inp34	266	-	-	-	-	-	-
inp38	82	-	-	-	-	-	-
inp76	46401	1336	-	-	-	-	-
inp77	42	-	-	-	-	-	-
inp87	222	-	-	-	-	-	-
inp93	27816	1710	-	-	-	-	-
inp94	382	-	-	-	-	-	-
inp103	916	-	-	-	-	-	-
inp104	684	-	-	-	-	-	-
inp113	278	-	-	-	-	-	-
inp114	138	-	-	-	-	-	-
inp131	-	-	-	-	8498	-	-
inp45	266	-	-	-	-	-	-
inp48	266	-	-	-	-	-	-
inp50	266	-	-	-	-	-	-
inp67	42	-	-	-	-	-	-
inp68	42	-	-	-	-	-	-
inp71	44	-	-	-	-	-	-

inp84	49135	9549	-	-	-	-	-
inp110	49000	9550	-	-	-	-	-
inp125	1392	-	-	-	-	-	-
inp130	42	-	-	-	-	-	-
inp133	42	-	-	-	-	-	-
inp134	8778	5196	-	-	-	-	-
inp135	2324	-	-	-	-	-	-
inp1004	22858	1032	-	-	-	4648	-
inp1008	-	-	-	-	-	69	-
inp1009	-	-	-	-	-	69	-
inp1011	1314	-	-	-	-	-	-
inp1015	20722	194	-	-	-	4510	-
inp1018	46399	98	-	-	-	56386	-
inp1029	-	-	-	-	-	144	-
inp1030	-	-	-	-	-	292	-
inp1031	2476	-	-	-	-	3188	-
inp1034	-	-	-	-	-	442	-
inp1035	-	-	-	-	-	152	-

8.23 OS X 10.11.6, Intel Core i7, GNU Fortran 6.3.0, GNU C/C++ 6.3.0

Quantity	Value
OS	OS X 10.11.6 (El Capitan)
Processor	2.8 GHz Intel Core i7
Fortran Compiler	GNU Fortran 6.3.0 (Homebrew)
C/C++ Compiler	GNU 6.3.0 (Homebrew)
OpenMP Thread Enabled	Yes
MPI Version (if Enabled)	N/A
# Test MPI Tasks	0
# Test OpenMP Threads	1

Expected REGRESSION suite output diffs:

CASE	OUTP diff	MCTAL diff	WWOUT diff	PLOT/ PTRAC diff	TEXT1/ MESHTAL diff	TEXT2/ EEOUT diff	TEXT3/ GMV diff
inp23	388	-	-	-	-	-	-
inp76	359276	1494	-	-	-	-	-
inp87	222	-	-	-	-	-	-
inp93	27944	1868	-	-	-	-	-
inp94	386	-	-	-	-	-	-
inp131	-	-	-	-	8498	-	-
inp84	49423	9709	-	-	-	-	-
inp110	49284	9710	-	-	-	-	-
inp134	8778	5196	-	-	-	-	-
inp135	2340	158	-	-	-	-	-
inp1004	22920	1032	-	-	-	4648	-
inp1008	-	-	-	-	-	55	-
inp1009	-	-	-	-	-	55	-
inp1011	872	-	-	-	-	-	-
inp1015	20756	194	-	-	-	4510	-
inp1018	46685	256	-	-	-	56386	-
inp1030	-	-	-	-	-	292	-
inp1031	2496	-	-	-	-	3188	-
inp1034	-	-	-	-	-	442	-
inp1035	-	-	-	-	-	152	-

8.24 OS X 10.11.6, Intel XEON, GNU Fortran 6.1.0, GNU C/C++ 6.1.0

Quantity	Value
OS	OS X 10.11.6 (El Capitan)
Processor	2.7 GHz Intel Xeon E5
Fortran Compiler	GNU Fortran 6.1.0
C/C++ Compiler	GNU 6.1.0
OpenMP Thread Enabled	Yes
MPI Version (if Enabled)	N/A
# Test MPI Tasks	0
# Test OpenMP Threads	1

Expected REGRESSION suite output diffs:

CASE	OUTP diff	MCTAL diff	WWOUT diff	PLOT/ PTRAC diff	TEXT1/ MESHTAL diff	TEXT2/ EEOUT diff	TEXT3/ GMV diff
inp23	388	-	-	-	-	-	-
inp87	222	-	-	-	-	-	-
inp93	27944	1868	-	-	-	-	-
inp94	386	-	-	-	-	-	-
inp131	-	-	-	-	8498	-	-
inp84	49423	9709	-	-	-	-	-
inp110	49284	9710	-	-	-	-	-
inp134	8778	5196	-	-	-	-	-
inp135	2340	158	-	-	-	-	-
inp1004	22920	1032	-	-	-	4648	-
inp1008	-	-	-	-	-	55	-
inp1009	-	-	-	-	-	55	-
inp1011	872	-	-	-	-	-	-
inp1015	20756	194	-	-	-	4510	-
inp1018	48266	256	-	-	-	52480	-
inp1030	-	-	-	-	-	292	-
inp1031	2496	-	-	-	-	3188	-
inp1034	-	-	-	-	-	442	-
inp1035	-	-	-	-	-	152	-

8.25 OS X 10.11.6, Intel Core i7, GNU Fortran 6.1.0, GNU C/C++ 6.1.0, 12 OpenMP Threads

Quantity	Value
OS	OS X 10.11.6 (El Capitan)
Processor	2.7 GHz Intel Xeon E5
Fortran Compiler	GNU Fortran 6.1.0
C/C++ Compiler	GNU 6.1.0
OpenMP Thread Enabled	Yes
MPI Version (if Enabled)	N/A
# Test MPI Tasks	0
# Test OpenMP Threads	12

Expected REGRESSION suite output diffs:

CASE	OUTP diff	MCTAL diff	WWOUT diff	PLOT/ PTRAC diff	TEXT1/ MESHTAL diff	TEXT2/ EEOUT diff	TEXT3/ GMV diff
inp23	384	-	-	-	-	-	-
inp87	222	-	-	-	-	-	-
inp92	452	-	-	-	-	-	-
inp93	27816	1710	-	-	-	-	-
inp94	382	-	-	-	-	-	-
inp103	452	-	-	-	-	-	-
inp104	452	-	-	-	-	-	-
inp131	-	-	-	-	8498	-	-
inp84	49135	9549	-	-	-	-	-
inp110	49000	9550	-	-	-	-	-
inp134	8778	5196	-	-	-	-	-
inp135	2324	-	-	-	-	-	-
inp1004	22858	1032	-	-	-	4648	-
inp1008	-	-	-	-	-	69	-
inp1009	-	-	-	-	-	69	-
inp1011	1314	-	-	-	-	-	-
inp1015	20722	194	-	-	-	4510	-
inp1018	47972	98	-	-	-	52480	-
inp1030	-	-	-	-	-	292	-
inp1031	2476	-	-	-	-	3188	-
inp1034	-	-	-	-	-	442	-
inp1035	-	-	-	-	-	152	-
inp1039	190	-	-	-	-	-	-

8.26 OS X 10.11.6, Intel Core i7, GNU Fortran 6.1.0, GNU C/C++ 6.1.0, 4 OpenMP Threads

Quantity	Value
OS	OS X 10.11.6 (El Capitan)
Processor	2.7 GHz Intel Xeon E5
Fortran Compiler	GNU Fortran 6.1.0
C/C++ Compiler	GNU 6.1.0
OpenMP Thread Enabled	Yes
MPI Version (if Enabled)	N/A
# Test MPI Tasks	0
# Test OpenMP Threads	4

Expected REGRESSION suite output diffs:

CASE	OUTP diff	MCTAL diff	WWOUT diff	PLOT/ PTRAC diff	TEXT1/ MESHTAL diff	TEXT2/ EEOUT diff	TEXT3/ GMV diff
inp23	384	-	-	-	-	-	-
inp87	222	-	-	-	-	-	-
inp93	27816	1710	-	-	-	-	-
inp94	382	-	-	-	-	-	-
inp103	916	-	-	-	-	-	-
inp104	684	-	-	-	-	-	-
inp131	-	-	-	-	8498	-	-
inp84	49135	9549	-	-	-	-	-
inp110	49000	9550	-	-	-	-	-
inp134	9234	5196	-	-	-	-	-
inp135	2324	-	-	-	-	-	-
inp1004	22858	1032	-	-	-	4648	-
inp1008	-	-	-	-	-	69	-
inp1009	-	-	-	-	-	69	-
inp1011	1314	-	-	-	-	-	-
inp1015	20722	194	-	-	-	4510	-
inp1018	47972	98	-	-	-	52480	-
inp1029	-	-	-	-	-	144	-
inp1030	-	-	-	-	-	292	-
inp1031	2476	-	-	-	-	3188	-
inp1034	-	-	-	-	-	442	-
inp1035	-	-	-	-	-	152	-

8.27 OS X 10.12, Intel Core i7, Intel Fortran 17.0.3, Apple Clang/Clang++ 8.0.0

Quantity	Value
OS	OS X 10.12 (Sierra)
Processor	2.8 GHz Intel Core i7
Fortran Compiler	Intel Fortran 17.0.3
C/C++ Compiler	Apple Clang 8.0.0
OpenMP Thread Enabled	Yes
MPI Version (if Enabled)	N/A
# Test MPI Tasks	0
# Test OpenMP Threads	1

Expected REGRESSION suite output diffs:

__CASE__	OUTP diff	MCTAL diff	WWOUT diff	PLOT/ PTRAC diff	TEXT1/ MESHTAL diff	TEXT2/ EEOUT diff	TEXT3/ GMV diff
inp1009	-	-	-	-	-	55	-

8.28 Windows 7 Enterprise SP1 (Cygwin64), Intel Xeon, Intel Fortran 17.0.1, Intel C/C++ 17.0.1

Quantity	Value
OS	Windows 7 Enterprise SP 1 (Cygwin64)
Processor	Xeon(R) CPU E5-2650 v3 @ 2.30GHz & Xeon(R) X5650 @ 2.67GHz
Fortran Compiler	Intel Fortran 17.0.1
C/C++ Compiler	Intel 17.0.1
OpenMP Thread Enabled	Yes
MPI Version (if Enabled)	N/A
# Test MPI Tasks	0
# Test OpenMP Threads	1

Expected REGRESSION suite output diffs for *E5-2650 v3*:

	OUTP	MCTAL	WWOUT	PLOT/ PTRAC	TEXT1/ MESHTAL	TEXT2/ EEOUT	TEXT3/ GMV
CASE	diff	diff	diff	diff	diff	diff	diff
inp1009	-	-	-	-	-	43	-

Expected REGRESSION suite output diffs for *X5650*:

No expected differences.

8.29 Windows 7 Enterprise SP1 (Cygwin64), Intel Xeon, Intel Fortran 17.0.1, MSVC C/C++ 19.00.24210

Quantity	Value
OS	Windows 7 Enterprise SP 1 (Cygwin64)
Processor	Xeon(R) CPU E5-2650 v3 @ 2.30GHz & Xeon(R) X5650 @ 2.67GHz
Fortran Compiler	Intel Fortran 17.0.1
C/C++ Compiler	MSVC 19.00.24210
OpenMP Thread Enabled	Yes
MPI Version (if Enabled)	N/A
# Test MPI Tasks	0
# Test OpenMP Threads	1
Note	Built with MS Visual Studio 2014

Expected REGRESSION suite output diffs for *E5-2650 v3*:

	OUTP	MCTAL	WWOUT	PLOT/ PTRAC	TEXT1/ MESHTAL	TEXT2/ EEOUT	TEXT3/ GMV
CASE	diff	diff	diff	diff	diff	diff	diff
inp1009	-	-	-	-	-	43	-

Expected REGRESSION suite output diffs for *X5650*:

No expected differences.

8.30 Windows 7 Enterprise SP1 (Cygwin64), Intel Core i7, GNU Fortran 5.4.0, GNU C/C++ 5.4.0

Quantity	Value
OS	Windows 7 Enterprise SP 1 (Cygwin64)
Processor	Intel(R) Core(TM) i7-5557U CPU @ 3.10GHz
Fortran Compiler	GNU Fortran 5.4.0
C/C++ Compiler	GNU 5.4.0
OpenMP Thread Enabled	Yes
MPI Version (if Enabled)	N/A
# Test MPI Tasks	0
# Test OpenMP Threads	1

Expected REGRESSION suite output diffs:

CASE	OUTP diff	MCTAL diff	WWOUT diff	PLOT/ PTRAC diff	TEXT1/ MESHTAL diff	TEXT2/ EEOUT diff	TEXT3/ GMV diff
inp23	390	-	-	-	-	-	-
inp87	223	-	-	-	-	-	-
inp93	28076	1881	-	-	-	-	-
inp94	388	-	-	-	-	-	-
inp131	-	-	-	-	8556	-	-
inp84	49775	9772	-	-	-	-	-
inp110	49638	9773	-	-	-	-	-
inp134	8812	5225	-	-	-	-	-
inp1004	23009	1043	-	-	-	4682	-
inp1008	-	-	-	-	-	55	-
inp1009	-	-	-	-	-	55	-
inp1011	872	-	-	-	-	-	-
inp1015	20836	196	-	-	-	4543	-
inp1018	48342	315	-	-	-	60708	-
inp1030	-	-	-	-	-	292	-
inp1031	2496	-	-	-	-	3188	-
inp1034	-	-	-	-	-	445	-
inp1035	-	-	-	-	-	152	-
inp1055	1446	-	-	-	-	-	-

8.31 Windows 7 Enterprise SP1 (Cygwin64), Intel Core i7, GNU Fortran 5.4.0, GNU C/C++ 5.4.0, 4 OpenMP Threads

Quantity	Value
OS	Windows 7 Enterprise SP 1 (Cygwin64)
Processor	Intel(R) Core(TM) i7-5557U CPU @ 3.10GHz
Fortran Compiler	GNU Fortran 5.4.0
C/C++ Compiler	GNU 5.4.0
OpenMP Thread Enabled	Yes
MPI Version (if Enabled)	N/A
# Test MPI Tasks	0
# Test OpenMP Threads	4

Expected REGRESSION suite output diffs:

CASE	OUTP diff	MCTAL diff	WWOUT diff	PLOT/ PTRAC diff	TEXT1/ MESHTAL diff	TEXT2/ EEOUT diff	TEXT3/ GMV diff
inp23	386	-	-	-	-	-	-
inp87	223	-	-	-	-	-	-
inp93	27948	1722	-	-	-	-	-
inp94	384	-	-	-	-	-	-
inp131	-	-	-	-	8556	-	-
inp84	49487	9611	-	-	-	-	-
inp110	49354	9612	-	-	-	-	-
inp125	279	-	-	-	-	-	-
inp134	8812	5225	-	-	-	-	-
inp1004	22947	1043	-	-	-	4682	-
inp1008	-	-	-	-	-	69	-
inp1009	-	-	-	-	-	69	-
inp1011	1314	-	-	-	-	-	-
inp1015	20802	196	-	-	-	4543	-
inp1018	47991	156	-	-	-	60708	-
inp1030	-	-	-	-	-	292	-
inp1031	2476	-	-	-	-	3188	-
inp1034	-	-	-	-	-	445	-
inp1035	-	-	-	-	-	152	-
inp1055	1432	-	-	-	-	-	-

8.32 Windows 7 Enterprise SP1 (Cygwin64), Intel Xeon, GNU Fortran 5.4.0, GNU C/C++ 5.4.0

Quantity	Value
OS	Windows 7 Enterprise SP 1 (Cygwin64)
Processor	Xeon(R) E5-2650 v3 @ 2.30GHz & Xeon(R) X5650 @ 2.67GHz
Fortran Compiler	GNU Fortran 5.4.0
C/C++ Compiler	GNU 5.4.0
OpenMP Thread Enabled	Yes
MPI Version (if Enabled)	N/A
# Test MPI Tasks	0
# Test OpenMP Threads	1

Expected REGRESSION suite output diffs for *Xeon(R) E5-2650 v3*:

CASE	OUTP diff	MCTAL diff	WWOUT diff	PLOT/ PTRAC diff	TEXT1/ MESHTAL diff	TEXT2/ EEOUT diff	TEXT3/ GMV diff
inp23	390	-	-	-	-	-	-
inp87	223	-	-	-	-	-	-
inp93	28076	1881	-	-	-	-	-
inp94	388	-	-	-	-	-	-
inp131	-	-	-	-	8556	-	-
inp84	49775	9772	-	-	-	-	-
inp110	49638	9773	-	-	-	-	-
inp134	8812	5225	-	-	-	-	-
inp1004	23009	1043	-	-	-	4682	-
inp1008	-	-	-	-	-	55	-
inp1009	-	-	-	-	-	55	-
inp1011	872	-	-	-	-	-	-
inp1015	20836	196	-	-	-	4543	-
inp1018	48342	315	-	-	-	60708	-
inp1030	-	-	-	-	-	292	-
inp1031	2496	-	-	-	-	3188	-
inp1034	-	-	-	-	-	445	-
inp1035	-	-	-	-	-	152	-
inp1055	1446	-	-	-	-	-	-

Expected REGRESSION suite output diffs for *Xeon(R) X5650*:

CASE	OUTP diff	MCTAL diff	WWOUT diff	PLOT/ PTRAC diff	TEXT1/ MESHTAL diff	TEXT2/ EEOUT diff	TEXT3/ GMV diff
inp23	390	-	-	-	-	-	-
inp87	223	-	-	-	-	-	-
inp93	28076	1881	-	-	-	-	-
inp94	388	-	-	-	-	-	-
inp131	-	-	-	-	8556	-	-
inp84	49775	9772	-	-	-	-	-
inp110	49638	9773	-	-	-	-	-
inp134	8812	5225	-	-	-	-	-

inp1004	23009	1043	-	-	-	4682	-
inp1008	-	-	-	-	-	55	-
inp1009	-	-	-	-	-	55	-
inp1011	877	-	-	-	-	-	-
inp1015	20836	196	-	-	-	4543	-
inp1018	48342	315	-	-	-	60708	-
inp1030	-	-	-	-	-	294	-
inp1031	2510	-	-	-	-	3209	-
inp1034	-	-	-	-	-	445	-
inp1035	-	-	-	-	-	153	-
inp1055	1453	-	-	-	-	-	-

8.33 Windows 7 Enterprise SP1 (Cygwin64), Intel Xeon, GNU Fortran 5.4.0, GNU C/C++ 5.4.0, 12 OpenMP Threads

Quantity	Value
OS	Windows 7 Enterprise SP 1 (Cygwin64)
Processor	Xeon(R) E5-2650 v3 @ 2.30GHz & Xeon(R) X5650 @ 2.67GHz
Fortran Compiler	GNU Fortran 5.4.0
C/C++ Compiler	GNU 5.4.0
OpenMP Thread Enabled	Yes
MPI Version (if Enabled)	N/A
# Test MPI Tasks	0
# Test OpenMP Threads	12

Expected REGRESSION suite output diffs for *E5-2650 v3*:

CASE	OUTP diff	MCTAL diff	WWOUT diff	PLOT/ PTRAC diff	TEXT1/ MESHTAL diff	TEXT2/ EEOUT diff	TEXT3/ GMV diff
inp23	386	-	-	-	-	-	-
inp87	223	-	-	-	-	-	-
inp93	27948	1722	-	-	-	-	-
inp94	384	-	-	-	-	-	-
inp103	454	-	-	-	-	-	-
inp104	454	-	-	-	-	-	-
inp131	-	-	-	-	8556	-	-
inp84	49487	9611	-	-	-	-	-
inp110	49354	9612	-	-	-	-	-
inp134	8812	5225	-	-	-	-	-
inp1004	22947	1043	-	-	-	4682	-
inp1008	-	-	-	-	-	69	-
inp1009	-	-	-	-	-	69	-
inp1011	1314	-	-	-	-	-	-
inp1015	20802	196	-	-	-	4543	-
inp1018	47991	156	-	-	-	60708	-
inp1029	-	-	-	-	-	145	-
inp1030	-	-	-	-	-	292	-
inp1031	2476	-	-	-	-	3188	-
inp1034	-	-	-	-	-	445	-
inp1035	-	-	-	-	-	152	-
inp1039	191	-	-	-	-	-	-
inp1055	1432	-	-	-	-	-	-

Expected REGRESSION suite output diffs for *X5650*:

CASE	OUTP diff	MCTAL diff	WWOUT diff	PLOT/ PTRAC diff	TEXT1/ MESHTAL diff	TEXT2/ EEOUT diff	TEXT3/ GMV diff
inp23	386	-	-	-	-	-	-
inp87	223	-	-	-	-	-	-
inp93	27948	1722	-	-	-	-	-
inp94	384	-	-	-	-	-	-

inp103	454	-	-	-	-	-	-
inp104	908	-	-	-	-	-	-
inp131	-	-	-	-	8556	-	-
inp84	49487	9611	-	-	-	-	-
inp110	49354	9612	-	-	-	-	-
inp134	8812	5225	-	-	-	-	-
inp1004	22947	1043	-	-	-	4682	-
inp1008	-	-	-	-	-	69	-
inp1009	-	-	-	-	-	69	-
inp1011	1321	-	-	-	-	-	-
inp1015	20802	196	-	-	-	4543	-
inp1018	47991	156	-	-	-	60708	-
inp1029	-	-	-	-	-	145	-
inp1030	-	-	-	-	-	294	-
inp1031	2490	-	-	-	-	3209	-
inp1034	-	-	-	-	-	445	-
inp1035	-	-	-	-	-	153	-
inp1055	1439	-	-	-	-	-	-

8.34 Windows 7 Enterprise SP1 (Cygwin64), Intel Xeon, Intel Fortran 17.0.1, Intel C/C++ 17.0.1, 10 OpenMP Threads

Quantity	Value
OS	Windows 7 Enterprise SP 1 (Cygwin64)
Processor	Xeon(R) X5650 @ 2.67GHz
Fortran Compiler	Intel Fortran 17.0.1
C/C++ Compiler	Intel 17.0.1
OpenMP Thread Enabled	Yes
MPI Version (if Enabled)	N/A
# Test MPI Tasks	0
# Test OpenMP Threads	10

Expected REGRESSION suite output diffs:

__CASE__	OUTP diff	MCTAL diff	WWOUT diff	PLOT/ PTRAC diff	TEXT1/ MESHTAL diff	TEXT2/ EEOUT diff	TEXT3/ GMV diff
inp94	386	-	-	-	-	-	-
inp103	456	-	-	-	-	-	-
inp104	690	-	-	-	-	-	-
inp1008	-	-	-	-	-	69	-
inp1009	-	-	-	-	-	69	-
inp1011	454	-	-	-	-	-	-
inp1029	-	-	-	-	-	146	-
inp1039	192	-	-	-	-	-	-

8.35 Windows 7 Enterprise SP1 (Cygwin64), Intel Xeon, Intel Fortran 17.0.1, Intel C/C++ 17.0.1, MSMPI 8.0.12438.0 10 Tasks

Quantity	Value
OS	Windows 7 Enterprise SP 1 (Cygwin64)
Processor	Xeon(R) CPU E5-2650 v3 @ 2.30GHz
Fortran Compiler	Intel Fortran 17.0.1
C/C++ Compiler	Intel 17.0.1
OpenMP Thread Enabled	Yes
MPI Version (if Enabled)	MSMPI 8.0.12438.0
# Test MPI Tasks	10
# Test OpenMP Threads	1

Expected REGRESSION suite output diffs:

CASE	OUTP diff	MCTAL diff	WWOUT diff	PLOT/ PTRAC diff	TEXT1/ MESHTAL diff	TEXT2/ EEOUT diff	TEXT3/ GMV diff
inp01	172	-	-	-	-	-	-
inp02	207	-	-	-	-	-	-
inp08	169	-	-	-	-	-	-
inp14	43	-	-	-	-	-	-
inp15	82	-	-	-	-	-	-
inp16	43	-	-	-	-	-	-
inp18	169	-	-	-	-	-	-
inp22	82	-	-	-	-	-	-
inp23	169	-	-	-	-	-	-
inp24	43	-	-	-	-	-	-
inp25	43	-	-	-	-	-	-
inp29	82	-	-	-	-	-	-
inp30	43	-	-	-	-	-	-
inp31	43	-	-	-	-	-	-
inp34	268	-	-	-	-	-	-
inp38	84	-	-	-	-	-	-
inp76	43	-	-	-	-	-	-
inp77	43	-	-	-	-	-	-
inp87	492	-	-	-	-	-	-
inp94	386	-	-	-	-	-	-
inp97	268	-	-	-	-	-	-
inp103	456	-	-	-	-	-	-
inp104	1380	-	-	-	-	-	-
inp113	282	-	-	-	-	-	-
inp114	140	-	-	-	-	-	-
inp45	268	-	-	-	-	-	-
inp48	268	-	-	-	-	-	-
inp49	268	-	-	-	-	-	-
inp67	43	-	-	-	-	-	-
inp68	43	-	-	-	-	-	-
inp71	45	-	-	-	-	-	-
inp119	268	-	-	-	-	-	-

inp125	1408	-	-	-	-	-	-
inp130	43	-	-	-	-	-	-
inp133	43	-	-	-	-	-	-
inp134	268	-	-	-	-	-	-
inp1008	-	-	-	-	-	69	-
inp1009	-	-	-	-	-	69	-
inp1011	454	-	-	-	-	-	-
inp1029	-	-	-	-	-	146	-

8.36 Windows 7 Enterprise SP1 (Cygwin64), Intel Xeon, Intel Fortran 17.0.1, MSVC C/C++ 19.00.24210, 10 OpenMP Threads

Quantity	Value
OS	Windows 7 Enterprise SP 1 (Cygwin64)
Processor	Xeon(R) X5650 @ 2.67GHz
Fortran Compiler	Intel Fortran 17.0.1
C/C++ Compiler	MSVC 19.00.24210
OpenMP Thread Enabled	Yes
MPI Version (if Enabled)	N/A
# Test MPI Tasks	0
# Test OpenMP Threads	1
Note	Built with MS Visual Studio 2014

Expected REGRESSION suite output diffs:

CASE	OUTP diff	MCTAL diff	WWOUT diff	PLOT/ PTRAC diff	TEXT1/ MESHTAL diff	TEXT2/ EEOUT diff	TEXT3/ GMV diff
inp87	224	-	-	-	-	-	-
inp94	386	-	-	-	-	-	-
inp103	456	-	-	-	-	-	-
inp104	1148	-	-	-	-	-	-
inp1008	-	-	-	-	-	69	-
inp1009	-	-	-	-	-	69	-
inp1011	454	-	-	-	-	-	-
inp1029	-	-	-	-	-	146	-
inp1039	192	-	-	-	-	-	-

8.37 Windows 7 Enterprise SP1 (Cygwin64), Intel Xeon, MinGW-64 Fortran 5.4.0, MinGW-64 C/C++ 5.4.0

Quantity	Value
OS	Windows 7 Enterprise SP 1 (Cygwin64)
Processor	Xeon(R) X5650 @ 2.67GHz
Fortran Compiler	MinGW-64 Fortran 5.4.0
C/C++ Compiler	MinGW-64 5.4.0
OpenMP Thread Enabled	Yes
MPI Version (if Enabled)	N/A
# Test MPI Tasks	0
# Test OpenMP Threads	1

Expected REGRESSION suite output diffs:

CASE	OUTP diff	MCTAL diff	WWOUT diff	PLOT/ PTRAC diff	TEXT1/ MESHTAL diff	TEXT2/ EEOUT diff	TEXT3/ GMV diff
inp23	392	-	-	-	-	-	-
inp87	224	-	-	-	-	-	-
inp93	28205	1894	-	-	-	-	-
inp94	390	-	-	-	-	-	-
inp131	-	-	-	-	8614	-	-
inp84	50127	9835	-	-	-	-	-
inp110	49992	9836	-	-	-	-	-
inp134	8846	5254	-	-	-	-	-
inp135	2362	160	-	-	-	-	-
inp1004	23098	1054	-	-	-	4716	-
inp1008	-	-	-	-	-	55	-
inp1009	-	-	-	-	-	55	-
inp1011	882	-	-	-	-	-	-
inp1015	20916	198	-	-	-	4576	-
inp1018	48699	260	-	-	-	52749	-
inp1030	-	-	-	-	-	296	-
inp1031	2524	-	-	-	-	3230	-
inp1034	-	-	-	-	-	448	-
inp1035	-	-	-	-	-	154	-
inp1055	1460	-	-	-	-	-	-

8.38 Windows 7 Enterprise SP1 (Cygwin64), Intel Xeon, MinGW-64 Fortran 5.4.0, MinGW-64 C/C++ 5.4.0, 12 OpenMP Threads

Quantity	Value
OS	Windows 7 Enterprise SP 1 (Cygwin64)
Processor	Xeon(R) X5650 @ 2.67GHz
Fortran Compiler	MinGW-64 Fortran 5.4.0
C/C++ Compiler	MinGW-64 5.4.0
OpenMP Thread Enabled	Yes
MPI Version (if Enabled)	N/A
# Test MPI Tasks	0
# Test OpenMP Threads	12

Expected REGRESSION suite output diffs:

CASE	OUTP diff	MCTAL diff	WWOUT diff	PLOT/ PTRAC diff	TEXT1/ MESHTAL diff	TEXT2/ EEOUT diff	TEXT3/ GMV diff
inp23	388	-	-	-	-	-	-
inp87	224	-	-	-	-	-	-
inp93	28077	1734	-	-	-	-	-
inp94	386	-	-	-	-	-	-
inp103	456	-	-	-	-	-	-
inp104	690	-	-	-	-	-	-
inp131	-	-	-	-	8614	-	-
inp84	49839	9673	-	-	-	-	-
inp110	49708	9674	-	-	-	-	-
inp134	8846	5254	-	-	-	-	-
inp135	2346	-	-	-	-	-	-
inp1004	23036	1054	-	-	-	4716	-
inp1008	-	-	-	-	-	69	-
inp1009	-	-	-	-	-	69	-
inp1011	1328	-	-	-	-	-	-
inp1015	20882	198	-	-	-	4576	-
inp1018	48373	100	-	-	-	52749	-
inp1029	-	-	-	-	-	146	-
inp1030	-	-	-	-	-	296	-
inp1031	2504	-	-	-	-	3230	-
inp1034	-	-	-	-	-	448	-
inp1035	-	-	-	-	-	154	-
inp1039	192	-	-	-	-	-	-
inp1055	1446	-	-	-	-	-	-

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