

The CESM Test and Port Database

<http://www2.cgd.ucar.edu/sections/cseg-cesm-software-engineering-group>

<https://csegweb.cgd.ucar.edu/testdb>

CESM Breckenridge Workshop – June 17-20

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<https://csegweb.cgd.ucar.edu/testdb>

In a nutshell...

What is it? The CESM Test and Port Database is a web-based tool that tracks CESM release tag development, porting issues and test results.

Why do we need it? The growing complexity of supporting multiple release versions, a.k.a. tags, with evolving science capabilities and numerous computing platforms required a more sophisticated tracking system than the previous system of web pages.

Who should use it? All CESM developers, programmers and scientists interested in tracking CESM tag development, porting and testing. A CESM/CISM SVN developers login or NCAR/CGD UCAS login is all that is needed to access the database. Currently, only CSEG members have edit privileges.

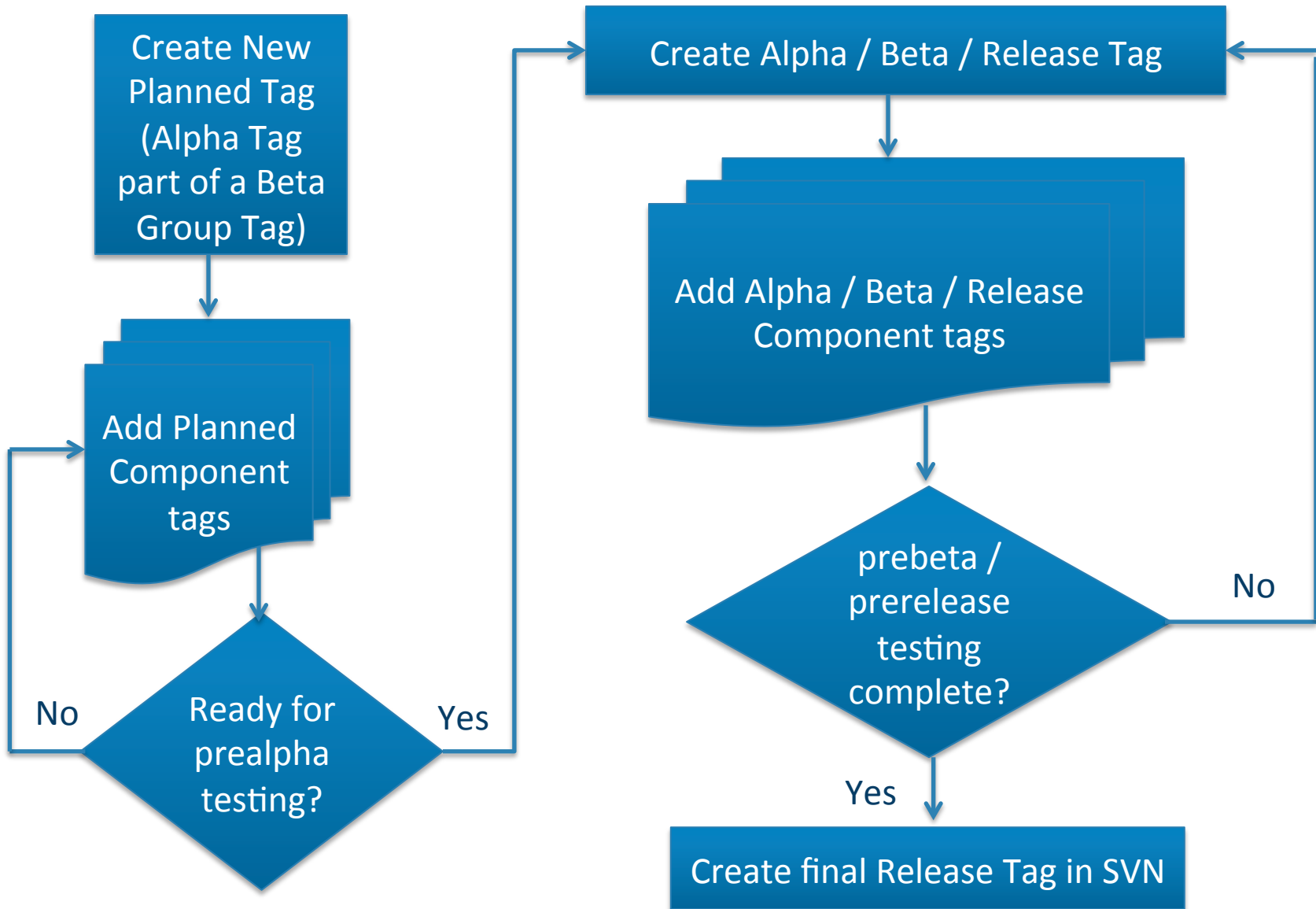
Need help?

Please contact aliceb@ucar.edu.

Preview:

- Work-flow
- Relational Database Model
- Bottom-up / top-down
- Automated Test Results Reports with XML / CGI
- Incorporating User Feedback
- Future Directions
- Comments / Questions

CESM Release Tag Workflow



Previous Tag Tracking System

The screenshot shows a web browser window with the title "CSEG Testing: Tags and Test Results". The address bar contains the URL "www.cgd.ucar.edu/cseg/testing/tags/cesm1_1_rel/cesm1_1_0_rel04/allinfo.html". The page content includes a navigation bar with "CSEG Testing" and "Revision Tags & Test Results". The main heading is "cesm1_1_0_rel04" followed by "Combined Tag Definition, Test Results, and Known Problems". A "Contents" section lists links for "Tag Definition", "Test Definitions", "Software Engineering Test Record", "Raw Software Engineering Test Record", and "Known Problems". The "Tag Definition" section provides details about the tag, including its name, originator, date, and summary. It also lists "Answer Changes" and a list of component tags used to create the tag.

CSEG Testing 09 Oct 2012
[Up One Level](#) | [CSEG Home](#) | [CESM Home](#)

cesm1_1_0_rel04

Combined Tag Definition, Test Results, and Known Problems

Contents

- [Tag Definition](#)
- [Test Definitions](#)
- [Software Engineering Test Record](#)
- [Raw Software Engineering Test Record](#)
- [Known Problems](#)

Tag Definition

Tag name: cesm1_1_0_rel04
Originator(s): cseg
Date: Nov 15, 2012
Summary: Final tag for the cesm1_1 release

Answer Changes :

B, E, F, I compsets for rcp6/8.5 change answers after 2006

List all component tags that were used to create cesm tag:

scripts	cesm1_1_0_rel_tags/cesm1_1_0_n25_scripts4_121105	***
Machines	Machines_121114e	***
drv	cesm1_1_0_rel_tags/cesm1_1_0_n01_drvseq4_2_08	***
mapping	mapping_121113b	***
share	share3_121022	***
cam	cesm1_1_0_rel_tags/cesm1_1_0_n07_cam5_2_00	***
clm	cesm1_1_0_rel_tags/cesm1_1_0_n08_clm4_0_54	***
rtm	rtm1_0_09	***
cice	cesm1_1_0_rel_tags/cesm1_1_0_n01_cice4_0_20120927	***
cism	cism1_121106a	***
nan	nan_2_1_20121114	***

Flat web pages with lots of scrolling....

```
CSEG Testing: Tags and Test Results
www.cgd.ucar.edu/cseg/testing/tags/cesml_1_rel/cesml_1_0_rel04/allinfo.html
sinu      stubs1_4_01
srof      stubs1_4_01
sice      stubs1_4_01
socn      stubs1_4_01
sglc      stubs1_4_01
timing     timing_120731
esmf_wrf_timemgr  esmf_wrf_timemgr_120427
mct       MCT2.8.2
pio       pio1_5_7

scripts
- cesml_1_0_rel_tags/cesml_1_0_n25_scripts4_121105 (jshollen) *cesml_1_0_rel04*
  - Remove CME_IOP.T31_g37.B1850CN
- cesml_1_0_rel_tags/cesml_1_0_n24_scripts4_121105 (mlevy)
  - New domain.ocn files for ne*_gl6
- cesml_1_0_rel_tags/cesml_1_0_n23_scripts4_121105 (jshollen)
  - Testlist changes
- cesml_1_0_rel_tags/cesml_1_0_n22_scripts4_121105 (erik,bfb)
  - fix xmlquery
- cesml_1_0_rel_tags/cesml_1_0_n21_scripts4_121105 (fischer) *cesml_1_0_rel03*
  - add SCAM compset
- cesml_1_0_rel_tags/cesml_1_0_n20_scripts4_121105 (jshollen) *cesml_1_0_rel02*
  - All FC5,FW tests will now run 3 days.
- cesml_1_0_rel_tags/cesml_1_0_n19_scripts4_121105 (erik)
  - Remove PTCLM
- cesml_1_0_rel_tags/cesml_1_0_n18_scripts4_121105 (jshollen)
  - Test changes for bluefire, lynx, and intrepid
- cesml_1_0_rel_tags/cesml_1_0_n17_scripts4_121105 (tcraig)
  - fix NCK test
- cesml_1_0_rel_tags/cesml_1_0_n16_scripts4_121101b (tcraig, bfb)
  - sync create_production_test fix (see "n11") with trunk version
- cesml_1_0_rel_tags/cesml_1_0_n15_scripts4_121101a (jedwards, bfb)
  - fix issue in create_clone and create_production_test
- cesml_1_0_rel_tags/cesml_1_0_n14_scripts4_121101 (jedwards, bfb)
  - fix issue in machines configure, merge duplicated perl code
- cesml_1_0_rel_tags/cesml_1_0_n13_scripts4_121030 (tcraig, bfb)
  - fix ICP, merge 121030 tag to branch
- cesml_1_0_rel_tags/cesml_1_0_n12_scripts4_121029 (jshollen, bfb)
  - updated README
- cesml_1_0_rel_tags/cesml_1_0_n11_scripts4_121029 (jshollen, bfb)
  - fix testcase_env.csh so that TEST_TESTID is set when called from create_production_test
- cesml_1_0_rel_tags/cesml_1_0_n10_scripts4_121029 (tcraig, bfb)
  - merge scripts4_121029
  - add test_build script to generate cesm executables up front for tests
  - refactor tests for new test build, update/remove some tests
  - rename setup to cesm_setup, rename env_pesetup.xml to env_mach_pes.xml
  - change F compset rof grid default to null
  - modify cs.submit for test build and other future extensions to it
  - update userdefined setup
  - modify how mpilib and mpi-serial defaults are set, add_M confopts
- cesml_1_0_rel_tags/cesml_1_0_n09_scripts4_121009b (jshollen)
  - Removed all WRF tests in preparation for WRF removal
```

- cesm1_1_0_rel_tags/cesm1_1_0_n01_scripts4_121009b (erik)
- first cesm1_1_0_rel tag, change ChangeLog

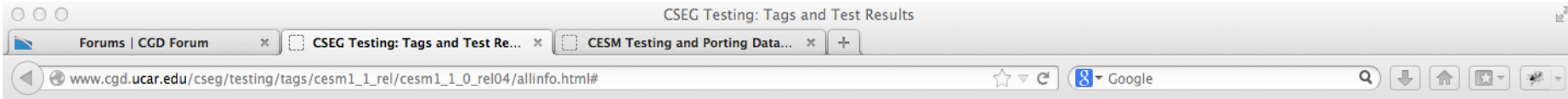
Machines

- Machines_121114e (jedwards,bfb) *cesm1_1_0_rel04*
- make user stacksize unlimited on lynx, yellowstone, hopper
- Machines_121114d (jedwards,bfb)
- add BGQ machine mira
- Machines_121114c (jshollen,bfb)
- update intel compiler, fix pgi LD_LIBRARY_PATH for frankfurt
- Machines_121114b (jedwards,bfb)
- change machines support for web documents
- Machines_121114a (jedwards,bfb)
- changes for intrepid
- Machines_121114 (jedwards,bfb)
- changes for hopper
- Machines_121113 (jedwards,bfb)
- update pe layout for janus
- Machines_121106 (tcraig, bfb) *cesm1_1_0_rel03*
- olympus fix
- Machines_121105a (jedwards,bfb) *cesm1_1_0_rel02*
- change ne30 testlayout on intrepid
- Machines_121105 (jedwards,bfb)
- add ESMF LIBDIR on yellowstone
- Machines_121101a (jedwards,bfb)
- fix issue introduced in Machines_121101
- Machines_121101 (jedwards,bfb)
- fix issue in configure, reduce duplicated perl code
- Machines_121030 (jedwards,bfb)
- updates for yellowstone
- Machines_121029 (tcraig, bfb)
- update userdefined defaults, rename to env_mach_pes.xml, update 1 pe layouts, remove nxm layouts (handled automatically by confopts)
- Machines_121025a (jshollen)
- updated mpirun statement for frankfurt
- Machines_121025 (jedwards)
- adjust pelayout for ne30 on intrepid
- trunk_tags/Machines_121012a *cesm1_1_0_rel01*

mapping

- trunk_tags/mapping_121113b (mlevy) *cesm1_1_0_rel04*
- Bugfix in gen_domain utility
- trunk_tags/mapping_121113 (mlevy)
- Bugfix in check_map utility
- trunk_tags/mapping_121105 (mlevy) *cesm1_1_0_rel02*
- Add ocn2lnd_aave map (needed for trigrid domain files)
- trunk_tags/mapping_121102 (mlevy)
- Close to working on yellowstone, need better ESMF install
- trunk_tags/mapping_121031 (mlevy)
- Improved documentation / examples
- trunk_tags/mapping_121030a (mlevy)

... scroll down to test results – all pages edited manually



▼ Lynx Test Record

Lynx prealpha Record

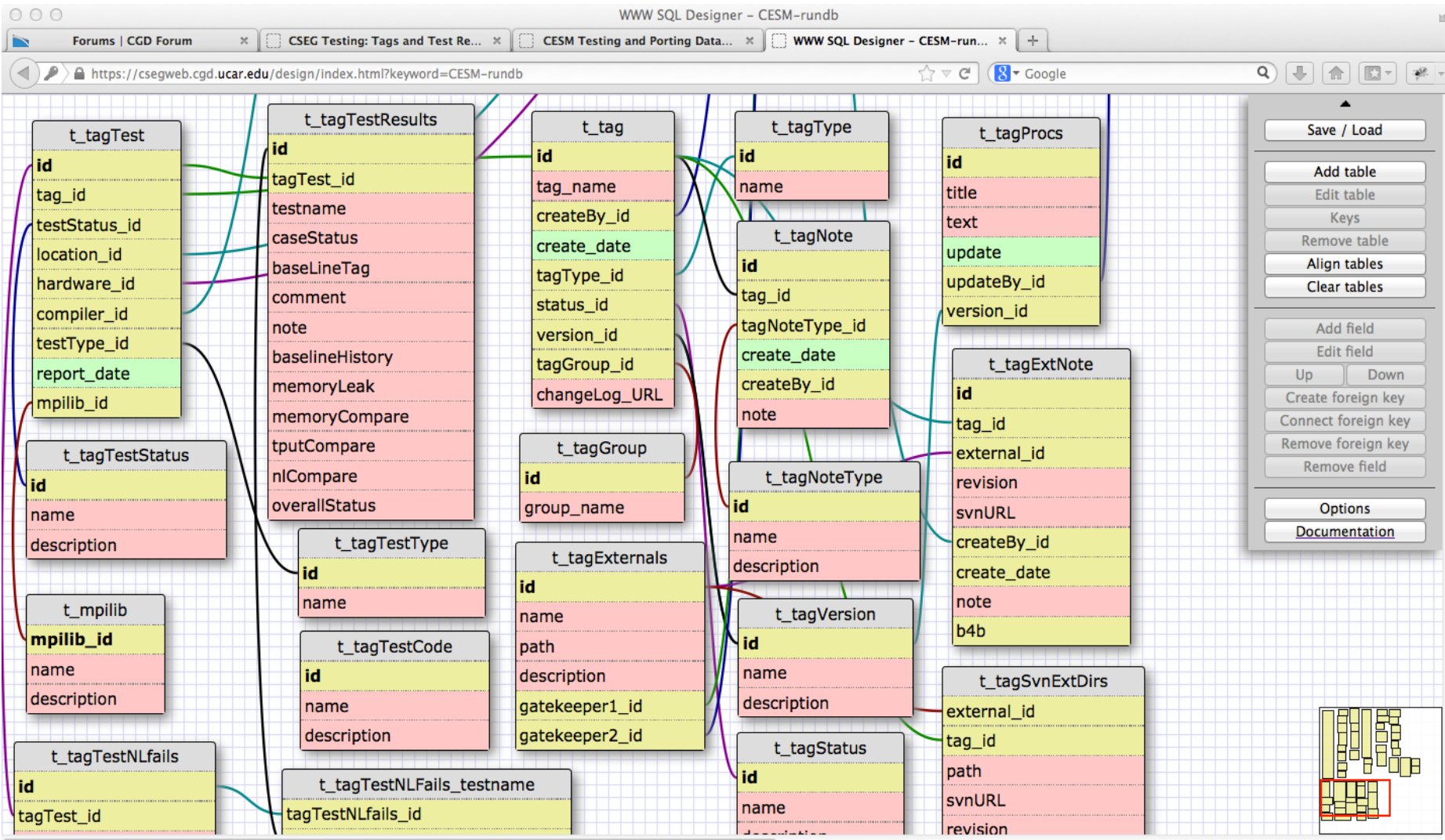
```
Possible test result outcomes:
UNDEF - undefined result
SFAIL - scripts case generation failed
TFAIL - test setup error
GEN - case generated
CFAIL - check_case script failed, env variable or build error
BUILD - model build passed, test not submitted
PEND - case submitted
RUN - case running or died during run, likely failure
PASS - case passed
CHECK - manual review of data is required
FAIL - case failed
BFAIL - compare test couldn't find base result
ERROR - test checker failed, test may or may not have passed
```

Compiler: pgi								
Test results last received: Thu Nov 15 17:04:09 2012								
Testroot: /glade/scratch/jshollen/lynxtests/rel04pgi/								
Test	Status	Compare Baseline History	Memory Leak	Memory Compare	Throughput Compare	Baseline Tag	Case Status	Notes
SMS_Ld6.f05_g16.B	PASS	BFAIL	PASS			cesm1_1_alpha18h	test completed 2012-11-14 15:07:20	

Compiler: intel								
Test results last received: Thu Nov 15 17:04:54 2012								
Testroot: /glade/scratch/jshollen/lynxtests/rel04intel								
Test	Status	Compare Baseline History	Memory Leak	Memory Compare	Throughput Compare	Baseline Tag	Case Status	Notes
ERS_PT_Ld3.f19_f19.FWSC	RUN						run started 2012-11-14 15:08:04	aborted during atm init, while opening ghg_forcing_2000_c110321.nc for reading
SMS_RLA.f45_f45.I	PASS	BFAIL	PASS			cesm1_1_alpha18h	test completed 2012-11-15 11:53:52	
							test completed 2012-11-14	

Testing and Porting Database Entity Relationship Diagram

Bottom up ...



The screenshot shows a web browser window with the following elements:

- Browser Tabs:** CSEG | CESM Software Engineering Group | NESL's Climate & Global Dynamics Division (CGD)
- Address Bar:** <https://www2.cgd.ucar.edu/sections/cseg-cesm-software-engineering-group>
- Page Header:** UCAR | NESL | About | **Sections** | Modeling | Research | Publications | Events | Opportunities | People | For Staff
- Logo:** NCAR | UCAR | NCAR Earth System Laboratory | Climate & Global Dynamics | *climate • models • society*
- Navigation:** COMMUNITY RESOURCES | DEVELOPMENT RESOURCES | CSEG LEGACY | Search
- Banner:** CSEG | CESM Software Engineering Group
- Section Header:** Sections Home » Sections
- Section Title:** CSEG | CESM SOFTWARE ENGINEERING GROUP
- Left Sidebar (Community Resources):**
 - CSEG COMMUNITY RESOURCES**
 - Contact
 - CSEG Staff
 - Help: Bulletin Board
 - Help: CESM Website
- Left Sidebar (Development Resources):**
 - CSEG DEVELOPMENT RESOURCES**
 - CESM Experiment Database
 - CESM Test and Port Database
 - Code Development Tools
 - Development Code, Release Code, InputData Repository
 - CSEG Wiki
- Main Content:**

Community models must be state-of-the-science, easy to use, well documented, extensively tested, widely available, and efficient on a broad spectrum of modern computational platforms. Ensuring these attributes are maintained in all CGD's community models is the responsibility of CGD's CESM Software Engineering Group (CSEG) and the CESM Software Engineering Working Group (SEWG).

Related activities include responding to user help requests via a [web bulletin board](#), managing all [model releases](#), and continual monitoring and improving model performance.

CSEG's most important function is to provide modern Software Engineering support to all CGD sections and projects, as well as to all CESM Working Groups, including the Land Ice Working Group (LIWG), which otherwise has no direct NCAR involvement.

CSEG also runs the [CESM test and port database](#) for CESM Software developers to track and prioritize upcoming model changes, as well as to document associated problems.

User's View

<https://csegweb.cgd.ucar.edu/testdb>
(SVN or UCAS authentication)

CESM TESTING AND PORTING DATABASE LOGIN

Login type: SVN UCAS

Username:

Password:

[Need a CESM SVN login?](#)
[Need a CISM SVN login?](#)
[Forgot your SVN login or password?](#)

Only CSEG members are allowed to edit the database.

... Top down... Tag lists Default View

Tag lists | Version: **CESM1_3_0** | Logged in as **Alice Bertini** | [Logout](#) | [Help / Procedures](#)

CESM1_3_0 TESTING AND PORTING DATABASE

Planned Tags | Alpha Tags | Beta Tags | Release Tags | Test Reports

[Add New Planned Tag](#)

Show **10** entries | Search:

Tag Name	Last Update	Planned Tag Summary
cesm1_3_beta01 (white board)		
cesm1_3_alpha01d	Sean Santos 2013-06-15	Fix for WACCM and strat chem bug in which negative constituent concentrations cause the model to crash in a CLY/BRY family adjustment routine.
cesm1_3_alpha01c	William Sacks 2013-06-14	change intel and pgi to use -O0 when building in debug mode since this will likely change answers for all _D compsets, this alpha tag should be limited to this one Machines change
cesm1_3_alpha01b	William Sacks 2013-06-12	splitting up the overcrowded cesm1_3_alpha01a, particularly in terms of CLM development
cesm1_3_alpha01a	James Edwards 2013-05-03	development beyond the 1.2 release

Showing 1 to 4 of 4 entries | [First](#) | [Previous](#) | **1** | [Next](#) | [Last](#)

Click on... Add New Planned Tag

CESM Testing and Porting Database – add a new planned tag

https://csegweb.cgd.ucar.edu/testdb/cgi-bin/addTag.cgi?tagType_id=1

CESM1_3_0 TESTING AND PORTING DATABASE

Add New Planned Tag Information

** Indicates a required field

**** Beta Tag Group**

-- Select --

or enter:

(Note: A new alpha tag name will be automatically created based on the beta tag group selected or entered and following the [CESM test tag naming conventions](#).)

**** Planned Tag Summary**

**** Baseline Tag for comparison**

-- Select --

or enter:

Starting point tag name for SVN_EXTERNAL_DIRECTORIES

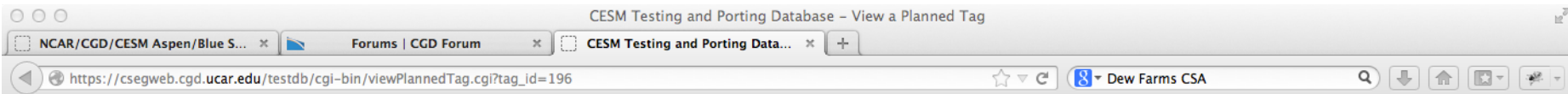
(Note: this tag name is used to read the SVN_EXTERNAL_DIRECTORIES URL most closely associated with this new tag as a starting point for all new external mods and additions. The field below will automatically be filled in with this tag name. You can also add default SVN externals in the Planned Tag view.)

<https://svn-ccsm-models.cgd.ucar.edu/>

Answer Changes

Expected Test Failures

Click on... cesm1_3_alpha01a Individual Planned Tag View



Tag lists | Version: **CESM1_3_0**

Logged in as **Alice Bertini** | [Logout](#) | [Help / Procedures](#)

Planned Tag Information - cesm1_3_alpha01a (2013-05-03)

Note Type	Last Update	Note
Answer Changes	<i>Sean Santos</i> 2013-06-15	cesm1_130514 changes answers for all CISM compsets scripts4_130522a changes answers for I_1850_CLM45_CN_GLC_CISM1 (IG1850CLM45CN) Different forcing years for ICRU compsets. CAM-SE has a new ic file for ne30.
Baseline Tag for Comparison		Double-click to edit
Expected Test Failures	<i>Sean Santos</i> 2013-06-15	CISM2 compsets will fail CAM-SE at ne30 will fail baseline tests.
Planned Tag Summary	<i>James Edwards</i> 2013-05-03	development beyond the 1.2 release

Links

Baseline Tag for Comparison:

Options

[Migrate to Alpha Tag](#)

[Full Change Log](#)

[Brief Change Log](#)

[View DB SVN EXTERNALS](#)

[Import SVN Externals](#)

Tag Externals

Scroll down... Individual Planned Tag View - Components

CESM Testing and Porting Database - View a Planned Tag

NCAR/CGD/CESM Aspen/Blue S... Forums | CGD Forum CESH Testing and Porting Data... Dew Farms CSA

https://csegweb.cgd.ucar.edu/testdb/cgi-bin/viewPlannedTag.cgi?tag_id=196

Options

- Migrate to Alpha Tag Full Change Log Brief Change Log View DB SVN EXTERNALS Import SVN Externals

Tag Externals

scripts
(19 entries)

	Who / When	Revision	Path	svnURL	bfb?	Exists?
	James Edwards (2013-06-11)	scripts4_130613	scripts	https://svn-ccsm-models.cgd.ucar.edu/scripts/trunk_tags/scripts4_130613	all	Yes
Note	Fix create_clone to use -mach_dir Fix check_exactrestart.pl to not fail on S compsets with no cpl logs to compare. Remove rtm grid from ne240 compset and add ocn/ice domain mask					
	Sean Santos (2013-06-12)	scripts4_130612	scripts	https://svn-ccsm-models.cgd.ucar.edu/scripts/trunk_tags/scripts4_130612	all	Yes
Note	A minor fix to getTiming2.pl; explicitly use extended regex to override GREP_OPTIONS.					
	Alice Bertini (2013-06-10)	scripts4_130611	scripts	https://svn-ccsm-models.cgd.ucar.edu/scripts/trunk_tags/scripts4_130611	all	No
Note	updating archive_metadata.sh to exclude more file types from being pushed up to the rundb svn repo including: poe.har* cesm.std*					
	Jay Shollenberger (2013-06-10)	scripts4_130610	scripts	https://svn-ccsm-models.cgd.ucar.edu/scripts/trunk_tags/scripts4_130610	all	Yes
Note	Re-Removed unneeded section from cism namelist documentation					
	Jay Shollenberger (2013-06-06)	scripts4_130606	scripts	https://svn-ccsm-models.cgd.ucar.edu/scripts/trunk_tags/scripts4_130606	all	Yes
Note	add aux_waccm testlist.					

Click on... “+” to add a new component note

Mozilla Firefox

https://csegweb.cgd.ucar.edu/testdb/cgi-bin/tagExtAddNote.cgi?tag_id=196&external_id=6&tag_name=cesm1_3_alpha01a&ext_name=ca

cesm1_3_alpha01a - cam Notes

Add Note

Revision	<input type="text"/>	Path	models/atm/cam
svnURL	<input type="text"/>		
bfb?	<input checked="" type="radio"/> All <input type="radio"/> None <input type="radio"/> Some	Exists in SVN?	<input checked="" type="radio"/> No <input type="radio"/> Yes
Note	<input type="text"/>		

Click on... “Pencil icon” to edit an existing component note

Mozilla Firefox

https://csegweb.cgd.ucar.edu/testdb/cgi-bin/tagExtUpdateNote.cgi?note_id=1554&tag_id=196&external_id=6&tag_name=cesm1_3_alpha01a

cesm1_3_alpha01a - cam Notes

Update/Delete Note

Who/When	Cheryl Craig (2013-06-11)	Revision	cam5_3_03
svnURL	https://svn-ccsm-models.cgd.ucar.edu/cam1/trunk_tags/cam5_3_03		
bfb?	<input type="radio"/> All <input type="radio"/> None <input checked="" type="radio"/> Some	Make this the current revision?	<input type="radio"/> No <input checked="" type="radio"/> Yes
Move to tag?	-- Select --	Exists in SVN?	Yes
Note	<ul style="list-style-type: none">- Modifications to pbuf to support sub-columns- Modifications to history to support sub-columns- Bug fix to cosp history <p>Only test which not BFB is cosp test on frankfurt/pgi: 044 bl317 TBL.sh f10c5cdm outfrq3s 9s</p> <p>This will not be visible in CESM tests because CESM tests still do not cover COSP (though of course this should be fixed).</p>		

Update **Delete** **Close**

Click on... Migrate to Alpha Tag

Process: Migrate Planned Tag to Alpha Tag and start testing
Display: Version: **CESM1_2_0** and **Alpha Tags** tab

The screenshot shows a web browser window with the URL <https://csegweb.cgd.ucar.edu/testdb/cgi-bin/tagList.cgi>. The page title is "CESM1_2_0 TESTING AND PORTING DATABASE". The user is logged in as "Alice Bertini". The page has a navigation bar with tabs: "Planned Tags", "Alpha Tags" (highlighted in orange), "Beta Tags", "Release Tags", and "Test Reports". A search bar is present with the text "Search:". Below the navigation bar, there is a table with columns: "Tag Name", "Status", "Last Update", "Problems Identified After Tag Creation", "Last Update", and "Answer Changes and Notes". The table shows a row for "cesm1_2_alpha08b" with status "Done" and a list of answer changes in the final column.

Tag lists | Version: **CESM1_2_0** | Logged in as **Alice Bertini** | [Logout](#) | [Help / Procedures](#)

CESM1_2_0 TESTING AND PORTING DATABASE

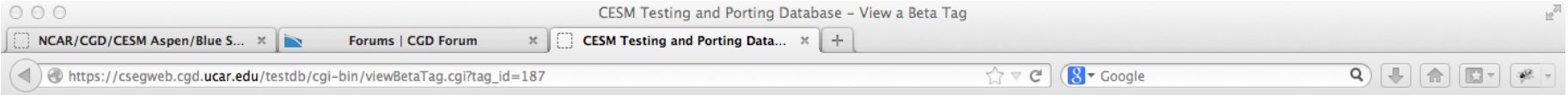
Planned Tags | **Alpha Tags** | Beta Tags | Release Tags | Test Reports

Show **10** entries | Search:

Tag Name	Status	Last Update	Problems Identified After Tag Creation	Last Update	Answer Changes and Notes
cesm1_2_beta08 (white board)					
cesm1_2_alpha08b <small>(cesm1_2_beta08)</small>	Done 2013-05-07	Jay Shollenberger 2013-05-07	Ecosys cases will not work using given refcases. CISM2 compsets will not work in this tag.	Erik Kluzek 2013-03-14	None. cesm tag changes answers for GLC compsets datm changes answers but ONLY for I compsets with CRUNCEP forcing (CRU in the name) clm4_0_81 changes answers for ALL CLM45 compsets. clm4_0_80 changes answers for ALL CLM45 compsets. clm4 0 79 changes answers for CLM40

Click on... cesm1_2_alpha08b

cesm1_2_alpha08b == cesm1_2_beta08



Tag lists | Version: **CESM1_2_0**

Logged in as **Alice Bertini** | [Logout](#) | [Help](#) / [Procedures](#)

Beta Tag Information - cesm1_2_beta08 (Created: 2013-05-03)
Inherited from: cesm1_2_alpha08b

Note Type	Last Update	Note
Alpha Tag Notes		Double-click to edit
Answer Changes		Double-click to edit
Baseline Tag for Comparison		cesm1_2_alpha08a
Beta Tag Notes		Double-click to edit
Expected Test Failures	<i>Michael Levy</i> 2013-05-02	hybrid pop2 ecosys tests will most likely fail, they need to be changed to use initial conditions all pop2 ecosys tests will fail namelist test, parm_f_prod_sp_caco3 was decreased by an order of magnitude
Planned Tag Summary	<i>Mariana Vertenstein</i> 2013-04-01	Refactoring and cleanup before release branches made. Maybe the final tag that the CESM1.2 release branches come from.
Problems Identified After Tag Creation	<i>Jay Shollenberger</i> 2013-05-07	Ecosys cases will not work using given refcases. CISM2 compsets will not work in this tag.

Links

Beta Group Tag Summary "white board": [cesm1_2_beta08](#)

Baseline Tag for Comparison: [cesm1_2_alpha08a](#)

SVN ChangeLog URL: https://svn-ccsm-models.cgd.ucar.edu/cesm1/tags/cesm1_2_beta08/ChangeLog

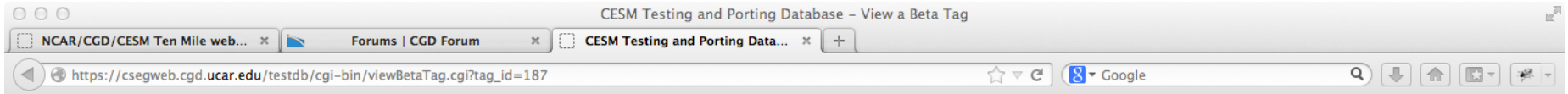
SVN_EXTERNAL_DIRECTORIES: https://svn-ccsm-models.cgd.ucar.edu/cesm1/tags/cesm1_2_beta08/SVN_EXTERNAL_DIRECTORIES

Options

- [Migrate to Release Tag](#)
- [Tag Definition](#)
- [prealpha Tests](#)
- [prebeta Tests](#)
- [prerelease Tests](#)
- [namelists Tests](#)
- [Full Change Log](#)
- [Brief Change Log](#)
- [View DB SVN EXTERNALS](#)

Click on.. prealpha Tests

Test results sent to DB via XML test reporter and CGI listener



Options

- [Migrate to Release Tag](#)
[Tag Definition](#)
[prealpha Tests](#)
[prebeta Tests](#)
[prerelease Tests](#)
[namelists Tests](#)
[Full Change Log](#)
[Brief Change Log](#)
- [View DB SVN EXTERNALS](#)

Test Information - cesm1_2_beta08 - prealpha

Test Machines:

- [frankfurt \(Intel / openmpi\)](#)
[frankfurt \(PGI / openmpi\)](#)
[janus \(Intel / openmpi\)](#)
[yellowstone \(Intel / mpich2\)](#)
[yellowstone \(PGI / mpich2\)](#)
[yellowstone \(Gnu / mpich2\)](#)

Test Status Codes

Test Codes

*** Click on test status name or test code name to view aggregated results for all test machines*

Test Status	Description	Test Code	Description
BFAIL	compare test could not find base result	APT	auto promotion test (default length)
BLANK	no value	CME	compare mct and esmf interfaces (10 days)
BUILD	model build passed, test not submitted	ERB	branch/exact restart test
CFAIL	check_case script failed, env variable or build error	ERH	hybrid/exact restart test
CHECK	manual review of data is required	ERI	hybrid/branch/exact restart test, default 3+19/10+9/5+4 days
ERROR	test checker failed, test may or may not have passed	ERS	exact restart from startup, default 6 days + 5 days
EXPFAIL	expected failure	ERT	exact restart from startup, default 2 month + 1 month (ERS with info debug = 1)
FAIL	case failed	ICP	ice performance test
GEN	case generated	LAR	long term archive test
PASS	case passed	NCK	multi-instance validation vs single instance (default length)
PEND	case submitted	P4A	production branch test b40.1850.track1.1deg.006 year 301
RUN	case running or died during run, likely failure	PEA	single pe bfb test (default length)

Click on... yellowstone Intel / mpich2 Prealpha Test Results

Test Information - cesm1_2_beta08 (prealpha)

Test Metadata		Column Toggle Controls
Machine	yellowstone	Hide Test
Compiler	Intel	Hide Overall Status
mpilib	mpich2	Hide Compare Baseline History
Test Results Last Received	2013-05-03	Hide Memory Leak
Baseline Tag	cesm1_2_alpha08a	Hide Memory Compare
Test Root	/glade/scratch/jshollen/tests/a08bintel/	Hide Throughput Compare
		Hide Namelist Compare
		Hide Case Status
		Hide Automated Comment
		Hide Note

Show entries

Search:

Test	Overall Status	Compare Baseline History	Memory Leak	Memory Compare	Throughput Compare	Namelist Compare	Case Status	Automated Comment	Note
CME.f45_g37_rx1.A.yellowstone_intel.GC.a08bintel	PASS	PASS				PASS	test completed 2013-05-02 15:50:45		Double-click to edit
ERI.T31_g37.IGCN.yellowstone_intel.GC.a08bintel	PASS	PASS	PASS	PASS	PASS	PASS	test completed 2013-05-02 16:01:39		Double-click to edit
ERS.f19_f19.FC4AQUAP.yellowstone_intel.GC.a08bintel	PASS	BFAIL	PASS				test completed 2013-05-02 16:11:14		Double-click to edit
ERS.T62_g37.G.yellowstone_intel.GC.a08bintel	PASS	PASS	PASS	PASS	FAIL	PASS	test completed 2013-05-02	tput_decr = 0.4149999	Double-click to edit

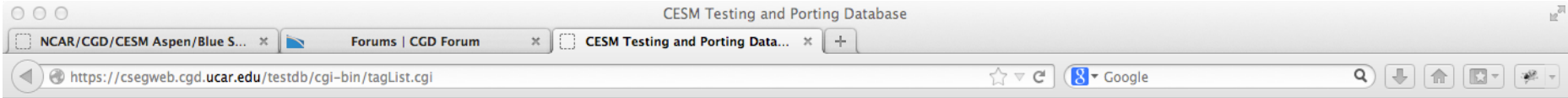
Click on... Test Status == Fail to see aggregated test results for all testing platforms
 (likewise, click on Test Code name to see aggregated results for a given test across all platforms)

CESM Testing and Porting Database - View Tag Test Results

https://csegweb.cgd.ucar.edu/testdb/cgi-bin/viewTagStatusCode.cgi?tag_id=187&testType_id=1&testStatus_id=11

Test Name	Machine	Compiler	mpilib	Report Date	Overall Status	Compare Baseline History	Memory Leak	Memory Compare	Throughput Compare
SMS.f09_g16.TG.yellowstone_gnu.GC.a08bgnu	yellowstone	Gnu	mpich2	2013-05-03	FAIL	BFAIL			
ERI.T31_g37.IGCN.yellowstone_gnu.GC.a08bgnu	yellowstone	Gnu	mpich2	2013-05-03	FAIL				
ERS.T62_g37.G.yellowstone_gnu.GC.a08bgnu	yellowstone	Gnu	mpich2	2013-05-03	PASS	PASS	PASS	PASS	FAIL
SMS_Ly2.f09_g16_gl10.TGIS2.yellowstone_intel.GC.a08bintel	yellowstone	Intel	mpich2	2013-05-03	FAIL	BFAIL			
SMS.T31_g37_gl10.BGCNIS2.yellowstone_intel.GC.a08bintel	yellowstone	Intel	mpich2	2013-05-03	FAIL	BFAIL			
ERS.T62_g37.G.yellowstone_intel.GC.a08bintel	yellowstone	Intel	mpich2	2013-05-03	PASS	PASS	PASS	PASS	FAIL
ERS_PT.f19_g16.B20TR.janus_intel.GC.a08b	janus	Intel	openmpi	2013-05-03	PASS	PASS	PASS	PASS	FAIL

Click on... Release Tags tab



Tag lists | Version: **CESM1_2_0**

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CESM1_2_0 TESTING AND PORTING DATABASE

[Planned Tags](#) | [Alpha Tags](#) | [Beta Tags](#) | **[Release Tags](#)** | [Test Reports](#)

[Add New Release Tag](#)

Show **10** entries

Search:

Tag Name	Status	Created	Release Tag Summary	Not Included In Release
cesm1_2_rel06	Done	2013-06-03	<i>Mariana Vertenstein</i> 2013-06-10 Final tag for release and bug fixes	<i>Jay Shollenberger</i> 2013-06-03 wrf, ww3
cesm1_2_rel05	Done	2013-05-20	<i>Erik Kluzek</i> 2013-05-20 New initial conditions for CAM and CLM. Possible changes to CAM.	<i>Erik Kluzek</i> 2013-05-20 ww3 wrf
cesm1_2_rel04	Done	2013-05-15	<i>Erik Kluzek</i> 2013-05-22 Fourth release tag. New initial conditions for 1850CRUCLM40CN. Forcing years for CRUNCEP updated.	<i>Jay Shollenberger</i> 2013-05-15 ww3 wrf
cesm1_2_rel03	Done	2013-05-13	<i>Erik Kluzek</i> 2013-05-15 Third release tag.	Double-click to edit
cesm1_2_rel02	Done	2013-05-10	<i>Erik Kluzek</i> 2013-05-14 New initial condition files for CAM.	Double-click to edit

Click on... [cesm1_2_rel03](#) and then click on [namelists Tests](#)

CESM Testing and Porting Database - View a Release Tag

NCAR/CGD/CESM Aspen/Blue S... x Forums | CGD Forum x CESH Testing and Porting Data... x +

https://csegweb.cgd.ucar.edu/testdb/cgi-bin/viewReleaseTag.cgi?tag_id=198

Google

Links

Beta Group Tag Summary "white board": [cesm1_2_rel03](#)
 Baseline Tag for Comparison: [cesm1_2_beta08](#)
 SVN ChangeLog URL: https://svn-ccsm-models.cgd.ucar.edu/cesm1/tags/cesm1_2_rel03/ChangeLog
 SVN_EXTERNAL_DIRECTORIES: https://svn-ccsm-models.cgd.ucar.edu/cesm1/tags/cesm1_2_rel03/SVN_EXTERNAL_DIRECTORIES

Options

-

Tag Externals

scripts (1 entries)		Who / When	Revision	Path	svnURL	bfb?	Exists?
+		James Edwards (2013-05-15)	scripts4_130515	scripts	https://svn-ccsm-models.cgd.ucar.edu/scripts/trunk_tags/scripts4_130515	all	Yes
Note		improve nl handling in create_test					
Machines (1 entries)		Who / When	Revision	Path	svnURL	bfb?	
+		James Edwards (2013-05-14)	Machines_130515	scripts/ccsm_utils/Machines	https://svn-ccsm-models.cgd.ucar.edu/Machines/trunk_tags/Machines_130515	all	
Note		updates for edison, pleiades,					
+ cprnc (0 entries)							
mapping (1 entries)		Who / When	Revision	Path	svnURL	bfb?	
+		Michael...	mapping_130515	tools/mapping	https://svn-ccsm-models.cgd.ucar.edu/tools/mapping/trunk_tags/mapping_130515		

Aggregated Namelists Comparison tests results

Namelist Comparison Test Information - cesm1_2_rel03

Comment Summary

Column Toggle Controls

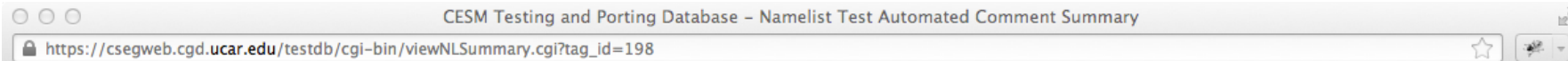
- [Hide](#) Test Name [Hide](#) Machine [Hide](#) Compiler [Hide](#) mpilib
- [Show](#) Report Date [Show](#) Testroot [Show](#) Overall Status [Hide](#) Namelist Compare
- [Show](#) Baseline Tag [Hide](#) Case Status [Hide](#) Automated Comment [Hide](#) Note

Show entries

Search:

Test Name	Machine	Compiler	mpilib	Namelist Compare	Case Status
SBN.1x1_urbanc_alpha.I1PT.yellowstone_intel.GC.rel03nbeta	yellowstone	Intel	mpich2	PASS	SFAIL SBN.1x1_urbanc_alpha.I1PT.yellowstone_intel
SBN.1x1_tropicAtl.I20TR.yellowstone_intel.GC.rel03nbeta	yellowstone	Intel	mpich2	PASS	SFAIL SBN.1x1_tropicAtl.I20TR.yellowstone_intel.GC
SBN.1x1_tropicAtl.I1850CN.yellowstone_intel.GC.rel03nbeta	yellowstone	Intel	mpich2	PASS	SFAIL SBN.1x1_tropicAtl.I1850CN.yellowstone_intel.
SBN.1x1_tropicAtl.I1850CLM45.yellowstone_intel.GC.rel03nbeta	yellowstone	Intel	mpich2		SFAIL SBN.1x1_tropicAtl.I1850CLM45.yellowstone_in
SBN.1x1_smallvilleIA.ICN.yellowstone_intel.GC.rel03nbeta	yellowstone	Intel	mpich2	PASS	SFAIL SBN.1x1_smallvilleIA.ICN.yellowstone_intel.G
SBN.1x1_smallvilleIA.ICLM45CNCROP.yellowstone_intel.GC.rel03nbeta	yellowstone	Intel	mpich2		SFAIL SBN.1x1_smallvilleIA.ICLM45CNCROP.yellowst
SBN.1x1_smallvilleIA.ICLM45CN.yellowstone_intel.GC.rel03nbeta	yellowstone	Intel	mpich2		SFAIL SBN.1x1_smallvilleIA.ICLM45CN.yellowstone_i
SBN.1x1_numalA.ICNCROP.yellowstone_intel.GC.rel03nbeta	yellowstone	Intel	mpich2		SFAIL SBN.1x1_numalA.ICNCROP.yellowstone_intel.0
SBN.1x1_numalA.ICN.yellowstone_intel.GC.rel03nbeta	yellowstone	Intel	mpich2	PASS	SFAIL SBN.1x1_numalA.ICN.yellowstone_intel.GC.re

Click on... Comment Summary



Namelist Test Comment Summary - cesm1_2_rel03

Testnames that failed:

SBN.f09_g16.B1850BPRP.yellowstone_intel.GC.rel03nlbeta
SBN.f09_g16.B20TRBPRP.yellowstone_intel.GC.rel03nlbeta

Comment:

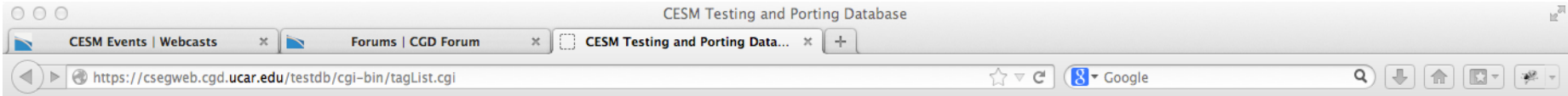
```
FAIL namelist compare: atm_in differs
NEW:      ncdata      = '/glade/p/cesm/cseg//inputdata/atm/cam/inic/fv/cami_1987-01-01_0.9x1.25_L26_c060703.nc'
BASELINE: ncdata      = 'b40.coup_carb.004.cam.i.0351-01-01-00000.nc'
FAIL namelist compare: ice_in differs
NEW:      ice_ic     = '/glade/p/cesm/cseg//inputdata/ice/cice/iced.0001-01-01.gxl_v6_20080212'
BASELINE: ice_ic     = 'b40.coup_carb.004.cice.r.0351-01-01-00000.nc'
FAIL namelist compare: lnd_in differs
NEW:      finidat    = '/glade/p/cesm/cseg//inputdata/ccsm4_init/b40.1850.track1.1deg.006/0863-01-01
/b40.1850.track1.1deg.006.clm2.r.0863-01-01-00000.nc'
BASELINE: finidat    = 'b40.coup_carb.004.clm2.r.0351-01-01-00000.nc'
FAIL namelist compare: pop2_in differs
NEW:      init_ts_option = 'ccsm_startup'
BASELINE: init_ts_option = 'ccsm_hybrid'
NEW:      overflows_restart_type = 'ccsm_startup'
BASELINE: overflows_restart_type = 'ccsm_hybrid'
NEW:      init_iage_option = 'ccsm_startup'
BASELINE: init_iage_option = 'ccsm_hybrid'
NEW:      init_ecosys_init_file = '/glade/p/cesm/cseg//inputdata/ocn/pop/gxl_v6/ic/ecosys_jan_IC_gxl_v6_corr02_Feb2013.nc'
BASELINE: init_ecosys_init_file = 'same_as_TS'
NEW:      init_ecosys_option = 'ccsm_startup'
BASELINE: init_ecosys_option = 'ccsm_hybrid'
NEW:      use_nml_surf_vals = .true.
BASELINE: use_nml_surf_vals = .false.
```

Testnames that failed:

SBN.f09_g16.B1850BDRD.yellowstone_intel.GC.rel03nlbeta
SBN.f09_g16.B20TRBDRD.yellowstone_intel.GC.rel03nlbeta

Comment:

Click on... Test Reports tab



Tag lists | Version: **CESM1_2_0**

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CESM1_2_0 TESTING AND PORTING DATABASE

Planned Tags | Alpha Tags | Beta Tags | Release Tags | **Test Reports**

Test Report Selection Filters

** These filters only work for version CESM1.2 and later. Use the Ctl+Shift keys to select multiple options within each selection list. The filters use "AND" logic so additional selections restrict the results set. **

Tags	Machines	Compilers	MPI Libs	Status Codes	Test Codes
cesm1_2_beta05	bluewaters	Cray	ibm	BFAIL - compare test could not find base result	APT - auto promotion test (default length)
cesm1_2_beta06	edison	Gnu	mpi-serial	BLANK - no value	CME - compare mct and esmf interfaces (10 day)
cesm1_2_beta07	frankfurt	IBM	mpich	BUILD - model build passed, test not submitted	ERB - branch/exact restart test
cesm1_2_beta08	hopper	Intel	mpich2	CFAIL - check_case script failed, env variable or build error	ERH - hybrid/exact restart test
cesm1_2_rel01	intrepid	Lahey	mpio	CHECK - manual review of data is required	ERI - hybrid/branch/exact restart test, default 3
cesm1_2_rel02	janus	NAG	mpt	ERROR - test checker failed, test may or may not have passed	ERS - exact restart from startup, default 6 days
cesm1_2_rel03	miras	PathScale	openmpi	EXPFAIL - expected failure	ERT - exact restart from startup, default 2 month
cesm1_2_rel04	titan	PGI	pempi	FAIL - case failed	ICP - ice performance test
cesm1_2_rel05	yellowstone	XLF		GEN - case generated	LAR - long term archive test

Compset: Grid:

CESM1_2_0 "white board"

Filtered test results display

CESM Testing and Porting Database - View Filtered Test Results

CEM Events | Webcasts | Forums | CGD Forum | CESM Testing and Porting Data...

https://csegweb.cgd.ucar.edu/testdb/cgi-bin/testReports.cgi

Google

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Tag lists | Version: CESM1_2_0

Filtered Test Information

Column Toggle Controls

- [Hide](#) Test Name
- [Hide](#) Report Date
- [Hide](#) Memory Leak
- [Hide](#) Baseline Tag
- [Hide](#) Machine
- [Hide](#) Testroot
- [Hide](#) Memory Compare
- [Hide](#) Case Status
- [Hide](#) Compiler
- [Hide](#) Overall Status
- [Hide](#) Throughput Compare
- [Hide](#) Automated Comment
- [Hide](#) mpilib
- [Hide](#) Compare Baseline History
- [Hide](#) Namelist Compare
- [Hide](#) Note

Show 10 entries

Search:

Test Name	Machine	Compiler	mpilib	Report Date	Testroot	Overall Status	Co Ba Hi
SBN.f09_g16.B1850BDRD.yellowstone_intel.GC.a08bnl	yellowstone	Intel	mpich2	2013-05-07	/glade/scratch/jshollen/tests/a08bnl/	GEN	
SBN.f09_g16.B1850BPRP.yellowstone_intel.GC.a08bnl	yellowstone	Intel	mpich2	2013-05-07	/glade/scratch/jshollen/tests/a08bnl/	GEN	
CME.T31_g37.B1850CN.yellowstone_intel.GC.a08bintelbeta	yellowstone	Intel	mpich2	2013-05-06	/glade/scratch/jshollen/tests/a08bintelbeta/	PASS	
ERI_PT.T31_g37.B1850CN.yellowstone_intel.GC.a08bintelbeta	yellowstone	Intel	mpich2	2013-05-06	/glade/scratch/jshollen/tests/a08bintelbeta/	PASS	
ERS.ne30_g16.B1850C5CN.yellowstone_intel.GC.a08bintelbeta	yellowstone	Intel	mpich2	2013-05-06	/glade/scratch/jshollen/tests/a08bintelbeta/	PASS	
ERS_D_E.T31_g37.B1850CN.yellowstone_intel.GC.a08bintelbeta	yellowstone	Intel	mpich2	2013-05-06	/glade/scratch/jshollen/tests/a08bintelbeta/	PASS	
ERS_IOP.ne30_g16.B1850CN.yellowstone_intel.GC.a08bintelbeta	yellowstone	Intel	mpich2	2013-05-06	/glade/scratch/jshollen/tests/a08bintelbeta/	PASS	

Future Directions...

- Continued incorporation of developer input
- More interaction with SVN for consistency
- Add structure to the whiteboards

Comments / Questions ?



Please contact Alice Bertini at aliceb@ucar.edu for any questions, problems, or suggestions.

