

Brief Status of nimdevel

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Since Sherwood, nimrod has merged changes from nimuw and nimpsi

- Include changes from nimuw-r632 (3.3.8)
- Include particle closure changes from nimpsi
- New functionality for turning on and off code relies on pre-processing:
 - Fortran files that need to be pre-processed are generally denoted by .F or .F90
 - This has made it easier to turn functionality off and on
 - Currently relying on native fortran compiler support, but will move to a python-based preprocessor based on experience of TRANSP
 - C-pre-processor syntax used:

```
#ifdef HAVE_CCEL
```

```
    CALL cel(converged,'ti cor  ',force_recomp)
```

```
#else
```

```
    CALL nim_stop('You want cel closure but compilation is wrong')
```

```
#endif
```

Regression testing is running and being emailed every night

- Emails are now going to nimrod-svn@nimrodteam.org
- Subscribe from private page (i.e., don't ask me)
- Currently have 12 tests
- ORNL tests are “volatile”: Pass one day, fail the next
 - Usually a sign of an uninitialized variable accessing random memory
 - Valgrind is common tool for diagnosing this problem (and others). Works well with gfortran
 - Valgrind did not turn up anything.
 - Will use logging and coverage charts to see if I can track down
- Currently plans:
 - add anisotropic stress tensor test (waves)
 - Need to get gmode case to work
 - Charlson has agreed to add a particle case (but has not)

Nimrodteam.org is moving to a new server

- Consolidated all run directories into “nimruns”
 - svn co <https://nimrodteam.org/svn/nimruns>
- Consolidated all papers into “nimpapers”
 - svn co <https://nimrodteam.org/svn/nimpapers>
- Anyone here can create directories.
- I can modify permissions at request
- New server should be more robust, faster, better maintained.