



EFDA

EUROPEAN FUSION DEVELOPMENT AGREEMENT

Task Force
INTEGRATED TOKAMAK MODELLING

15/09/2010

IMP5: ITM tools – very quick start

T. Johnson

- Lots of ITM “stuff” (codes, webpages...) is stored under SVN (subversion)
- SVN is a *version control system* (keeps track of new/old versions of the files)
- SVN data is stored on a server; in *repositories*



SVN Server

Repositories e.g.
...itm/imp5.../gray
...itm/imp5.../ascot
...itm/imp5.../toriq

Communication

- usually via terminal
 > svn <arg>
- also possible with webinterface

SVN example

- Examples, to fetch the XML schema definitions of the 4.08b datastructures

```
svn checkout --username <your name> http://gforge.efda-itm.eu/svn/fpsim
```

- ...modify something e.g. in fpsim.f90...
- Compare your version with the one on the SVN repository

```
svn diff fpsim.f90
```

will tell you what every line in fpsim.f90 that has been change and show the old and new version of the edited lines

- Share your changes with every developing FPSIM by “checking in” your changes, i.e. storing them on the SVN server (in the SVN repository)

```
svn ci -m 'a comment describing your change' fpsim.f90
```

(Note that the old data is still there; every checkin generate a new version)

SVN example

- Good place to put documentation of your progress, e.g. on integration, is on the new DocBook-webpages, <https://www.efda-itm.eu/~wwwimp3/TEST/ITM/html/index.html>.
- As an example of such documentation, see Christian IMP12 pages.
https://www.efda-itm.eu/~wwwimp3/TEST/ITM/html/imp12_public.html
- These pages are stored in SVN; you can check out a copy of the source code using:

```
svn checkout -username <your name> http://gforge.efda-itm.eu/svn/doc_test
```

- There's lot of help for how to modify these webpages on
https://www.efda-itm.eu/~wwwimp3/TEST/ITM/html/itm_howtos.html
- Once you've made your changes, commit your changes to the SVN repository (on the SVN server)

SVN – create a project

To help you set up your own SVN project for your code under GFORGE, then there's an excellent webpage by Christian Konz

https://www.efda-itm.eu/~wwwwimp3/TEST/ITM/html/itm_subversion.html#itm_subversion

with detailed description on where to click and what you can do – very useful!

Useful that can be found in GFORGE:

- If you want to check out a copy an ITM code, or any other SVN project under ITM.
- For each project you can find the command line for *svn checkout* on the GFORGE web pages.

The following pages will tell you how to find this command line for the numerical_tools project:

Log on to : <https://portal.efda-itm.eu/>
...and choose GFORGE
...then PROJECTS

EFDA Task Force
Integrated Tokamak Modelling
EUROPEAN FUSION DEVELOPMENT AGREEMENT

Logged In as: tjohnson
Dashboard | Copy to m
dashboard | Logout

AMNS EDRG **GFORGE** IMP12 IMP3 IMP4 IMP5 ISIP ISM ITM

Home My Stuff Users Search **Projects** Snippets ID ?

Logged in: tjohnson | [Log out](#)

Home »

Welcome to the ITM-TF Collaborative Software Development Environment. It is currently under continued deployment and you may still experience some bumps along the road.

You may experience some teething problems!

A brief How-To guide is being prepared. If you need some help getting started with using Gforge you can consult the user guide:
gforgegroup.com/es/help.php

[Click here for General Support.](#)

Recent News

New documentation system now live!
David Coster
2010-08-28
The new documentation system is now live. Connect to
<https://www.efda-itm.eu/~wwwimp3/TEST/ITM/html/>

Many thanks to Christian Konz and John Storrs!

Discussions

version 4.4d

Activity

Activity

Recently Registered Projects

- (2010-07-27) [ITM Catalog Querying Tool](#)
- (2010-07-09) [KeplerActors](#)
- (2010-07-09) [SPOT](#)
- (2010-07-09) [NEMO](#)
- (2010-07-09) [Numerical Tools](#)
- (2010-06-30) [practicalxml](#)
- (2010-06-23) [GRAY](#)
- (2010-05-26) [Integrated Modelling Project 5](#)
- (2010-05-21) [Turbulence CPO in HDF5 file](#)
- (2010-05-11) [CEDRES++](#)

Top Downloads

(0) [Error Field Module](#)

Browse Project Topics

[Other/Nonlisted Topic \(7\)](#)
ISIP (15)



Home » Project Browse

| Full name | Account name (lowercase) | Description |
|--|---------------------------------|--|
| XMLLIB | xmllib | An F95 library for parsing XML coded code parameters. |
| WS2K | ws2k | Graphical tool for automatic generation of Web Services |
| VisIt Visualization | visit_visu | Visualization of CPO fields through a VisIt plug-in |
| UAL | ual | ITM UAL |
| Turbulence CPO in HDF5 file | trurbulence_cpo | Routines which store the content of the turbulence CPO into a HDF5 file. |
| TRAVIS | travis | ECRH/ECCD |
| Testing GForge | test2009 | Project to test the GForge features |
| SVNSYNC TEST | svnsync_test | Test project for synchronizing with external SVN repositories, as proposed by David Coster. The testing will be done by Vasile Pais, Trach-Minh Tran and Olivier Sauter. |
| SPOT | spot | Simulation of fast ion propagation using an orbit following Monte Carlo method via the guiding centre technique |
| skel | skel | A skeleton for developing Fortran MPI and non-MPI (serial) time dependent program. |
| scripts (ISIP, platform management) | scripts | Scripts of general use, provided by ISIP for the management of platform-related environment variables, Kepler actors, ... |
| ScicosLab43 | scicoslab43 | Custom version of ScicosLab GTK 4.3 with build in Code Generator for Kepler |
| SAWTEETH model | sawteeth | Sets of routines to describe a sawteeth model, calculating the trigger criteria and if a crash should be performed, the post-crash profiles |
| QWA-2 | qwa2alphanum | Test of Version Control |
| Python Visualization | python_visu | Visualization of data coming from the UAL with Python tools (UAL interface, numpy/matplotlib, Kepler actor) |
| practicalxml | practicalxml | |
| Orbit-following Monte Carlo code ASCOT | ascot | (Tokamaks) orbit-following Monte Carlo code |
| Numerical Tools | numerical_tools | This project hosts all ITM-TF related numerical tools like fitting and interpolation routines, grid generation, AMR routines, etc. |

Choose e.g. Numerical Tools

Numerical Tools

- Summary
- >> Reporting
- >> Search
- >> Forums
- >> Tracker
- >> Docs
- >> News
- >> Files
- >> Lists
- >> Wiki
- >> **SVN**

Choose SVN

Home » Projects » Numerical Tools » Home

Recent News

No news items found

| Time | Activity Type | By |
|-------------|---|--------------------------------|
| 2010-Jul-14 | | |
| 18:19:21 | Commit: with arrays to determine time slices or intervals | Olivier Sauter |
| 11:21:25 | Commit: all inputs as generic names and added arrays ala Olivier and without list | Olivier Sauter |
| 2010-Jul-09 | | |
| 15:13:28 | Commit: add 1st version of equilibriumfit module | Olivier Sauter |
| 15:12:14 | Commit: add generic xml input library params_generic | Olivier Sauter |

Home » Projects » Numerical Tools » SVN » Browse repository

Index of /

Files shown: 0

Directory revision: 6 (of 6)

Sticky Revision:

| File | Rev. | Age | Author |
|---------------------------|-------------------|----------|--------|
| branches/ | 6 | 5 days | sauter |
| tags/ | 1 | 2 months | root |
| trunk/ | 1 | 2 months | root |

Powered by [ViewVC 1.0.0](#)

FORGE
Advanced Server

- SVN
- **Access info**
- Browse
- Statistics
- SVN Reference

Click on

- **branches/** (temporary for development)
- **tags/** (stored versions, e.g. 4.07c/ 4.08a/ of the datastructures)
- **trunk/** (present version)

You can see all files in the project and all previous versions of each file!

Next, choose e.g. Access info



Your ITM user name

Home » Projects » Numerical Tools » SVN » Access info

Developer Subversion Access via DAV

Only project developers can access the SVN tree via this method. Substitute `developername` with the proper values. Enter your site password when prompted.

```
svn checkout --username developername http://gforge.efda-itm.eu/svn/numerical_tools
```

Run this command in your terminal to get your own copy of **numerical_tools**.

NOTE: this can be done on Gateway, at your home lab or on your laptop!