

The New ITM Website

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Quick link bar <http://www.efda-itm.eu/~wwwimp3/TEST/ITM/html/index.html> **sitemap**

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EFDA Task Force
Integrated Tokamak Modelling
EUROPEAN FUSION DEVELOPMENT AGREEMENT

AMNS • EDGR • ISIP • IMP12 • IMP3 • IMP4 • IMP5 • ISM Infrastructure • Conventions •
HowTo's • Shot Journal • Numerical Tools • Visualization • Code Status • Code Catalog •
Documentation Project • Verification and Validation • ITM Contact List in 2010 •
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How to write documents for Practical XML

Introduction
Use
Parser

Fully linked table of contents

ISIP

- Data Structure
- Release Versions • History
- ITM Types
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- Fortran
- Perl Tool
- Databases
- exp2tm
- Universal Access Layer (UAL)
- Introduction
- UAL User Guide
- Introduction • General Concepts • High Level API • Low Level Layer API

FCZX

- How to turn a C++ code into a Kepler actor
- Adapt your C++ function • How to use code parameters • Compile your function as a library • Full example •
- How to fill the FCZX window

Kepler

- Setup • Issues
- Integrated Simulation Editor (ISE)
- Tools
- MDSplus
- Gateway
- How to get an account on the ITM Gateway • Using SSH • Using SFTP • Using NX • Disk Quota
- Portal
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- Training
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- Timeline
- Links
- Overviews • GForge Projects

Project web pages

ITM Shot Journal

CPO type lists

member	type	description
datainfo	datainfo	Generic information on a data item
antenna_ec	antenna_ec	Electron Cyclotron antennas
antenna_ic	antenna_ic	Ion Cyclotron antennas
antenna_h	antenna_h	Lower hybrid antennas
codeparam	codeparam	Code parameters
time	float	Time [s]; Time-dependent Scalar

Regularly updated ITM News

Newsfeed **archive**

Date	News
2010-09-07	Gateway User Agreement now available
2010-09-07	simplified links to graphics and imports (now simply relative links)
2010-09-01	new material under AMNS
2010-08-31	more IMP12 workflows added
2010-08-28	new IMP12 workflows added
2010-08-28	active main links now in pdfs
2010-08-28	Contact List 2010 added
2010-08-27	shots available for ASDEX Upgrade
2010-08-24	Glossary added
2010-08-23	Verification and Validation material added
2010-08-23	Source movies for the documentation project now available
2010-08-18	project IMP4 now online
2010-08-17	projects ISM and EUFORIA now online
2010-08-17	material on Visualization of ETS results added
2010-08-17	all pdf files now with correct links (internal and external)
2010-08-12	ISIP timeline added
2010-08-12	Data Structure Releases added
2010-08-11	Matlab UAL expert guide added
2010-08-08	Added a link to the old ITM Code Catalog of the main page
2010-08-07	Universal Access Layer User Guide now online
2010-08-05	search engine (html, pdf) now active
2010-08-05	added material on How to turn a C++ code into a Kepler actor
2010-08-02	Testbed for PracticalXML added
2010-08-01	task table 2010 added for IMP3

Code Status

The following page gives you a summary of the development and release status of the physics and infrastructure modules maintained within the ITM Code Status. Developers, please update the top of your modules regularly following the above link

Code Catalog

The repository activities, the ITM created a catalog of available codes. This catalog is now somewhat out of date, it is still useful.

Documentation Project

The repository activity of the documentation project is summarized very nicely in the following movies:

- X264 MP4
- WMV2 WMV

Search

Select: All ITM | Match: All | Format: Long | Sort by: Score

Former code catalog

Categories	Equilibrium	Grad-Shafranov Solvers	Fixed Boundary	2-D Flux coordinate codes
MHD Stability	Experimental reconstruction (eg from magnetics)	Free boundary	2D Flux coordinates	CAXE
Core Transport and Discharge Evolution	High resolution Grad-Shafranov Solvers	Fixed boundary	2D Cylindrical coordinates	CHEASE
Micro-stability and Turbulence	Equilibrium evolution codes		3D geometry	ECHN
Exhaust/heat loading	Full list			FINESE
Heating, Current drive and Fueling				HELENA
Equilibrium				
Data analysis codes				
Full list of codes				

Universal Access Layer (UAL)

The UAL (Universal Access Layer) is a multi-language library that allows exchanging Consistent Physical Objects (CPOs) between various modules, and write to an ITM database. The documentation here is provided for rather experienced users who want to practice the UAL in their test programs. Regular KEPLER users do not need to know anything about the UAL. KEPLER manages transparently the UAL calls, which are embedded in the physics code wrappers. No UAL calls should be made inside physics modules.

The current default version is 4.08a, located at: /afs/efda-itm.eu/project/switm/ua/4.08a.

The database environment variables (mandatory prior UAL usage), use:

```
source /afs/efda-itm.eu/project/switm/scripts/set_itm_data_env USERNAME MACHINENAME DATAVERSION
```

e.g.:

```
source /afs/efda-itm.eu/project/switm/scripts/set_itm_data_env myname jet 4.08a
```

Then to set the path to the right UAL libraries, use:

```
source /afs/efda-itm.eu/project/switm/scripts/set_itm_env DATAVERSION
```

e.g.:

```
source /afs/efda-itm.eu/project/switm/scripts/set_itm_env 4.08a
```

If you wish to work on your own private database, you can use the complete script ITMv1_KEPLERFOLDER (which uses both scripts above + sets the Kepler environment variables simultaneously):

```
source /afs/efda-itm.eu/project/switm/scripts/ITMv1_KEPLERFOLDER MACHINENAME DATAVERSION
```

e.g.:

```
source /afs/efda-itm.eu/project/switm/scripts/ITMv1_KEPLERFOLDER kepler tore supra 4.08a
```

See the UAL User Guide for more information.

The source code is stored in a subversion repository in /afs/efda-itm.eu/project/portal/gforge/storage/svnroot/ual. To check out a subversion working copy of the repository, storing it in subdirectory ual, do

```
svn co http://gforge.efda-itm.eu/svn/ual
```

Data base showing integration status of ITM codes

ITM Code Status

Update already existing code

Specific code name:

Update code status

Code name: Date (format=YYYYMMDD) IMP12 IMP3 IMP4 IMP5 ISIP EDGR AMNS OTHER UserID

Description	Status	Date of next action	Comments
Phase I: initial porting (A) Porting to the ITM Gateway (runs on ITM Gateway, compilers, libraries, etc.) (B) Completion of "grant of software license and rights to the ITM" procedure (C) Creation of a project under GForge and code under subversion (on the ITM Gateway or mirrored there)	<input type="checkbox"/>	<input type="checkbox"/>	
Phase II (preparation of stand-alone module)	<input type="checkbox"/>	<input type="checkbox"/>	

Animated history of the documentation project

Monday, 06 September, 2010 16:39:26

Thanks go to the following contributors: J. Storrs, D. Coster, T. Johnson, R. Coelho, I. Voitsekhovitch, X. Litaudon, L.-G. Eriksson

Search results for 'code and specific and parameters'

Match: All | Format: Long | Sort by: Score

Refine search: [code specific parameters] Search

Documents 1 - 10 of 35 matches. More stars indicate a better match.

How to handle code specific parameters★★★★

How to handle code specific parameters September 7, 2010 Contents 1 Why XML? 2.2 W3C XML Schemas 3.3 How to convert Code Parameters into XML 3.3.1 Step 1: Extraction - XML Schema 4.3.2 Step 2: Conversion - XML File
https://www.efda-itm.eu/~wwwimp3/TEST/ITM/html/itm_code_parameters.pdf 09/07/10, 989220 bytes

How to handle code specific parameters★★★★

Home > HowTo's > How to handle code specific parameters Previous & Next & Index AMNS & EDGR & ISIP & IMP12 & IMP3 & IMP4 & IMP5 & ISM & Infrastructure & Conventions & Shot Journal & Numerical Tools & Visualization & Documentation Project & Verification and Validation & ITM Contact List in 2010 & Newsfeed & Glossary & EUFORIA & Search
https://www.efda-itm.eu/~wwwimp3/TEST/ITM/html/itm_code_parameters.html 09/07/10, 33947 bytes

ITM★★★★

ITM September 7, 2010 Contents 1 AMNS 19 1.1 Scientific Rationale and Main Objectives 19 1.2 ITM contact person
. 19 1.3 Tasks
<https://www.efda-itm.eu/~wwwimp3/TEST/ITM/html/itm.pdf> 09/07/10, 12899165 bytes

Using XML for Code Specific Parameters★★★★

Using XML for Code Specific Parameters C. Konz ITM TF Kepler Training, Cadarache May 4, 2009 Outline: Code Specific Parameters Proposed Approach W3C XML Schemas and F95 XML Parser Tools for Autogeneration of Schemas XML Use for ITM Data Structures Motivation structures form the basis of
https://www.efda-itm.eu/~wwwimp3/TEST/ITM/imports/isp/public/isp_FortranXMLParser.pdf 08/27/10, 762677 bytes

Glossary★★★★

. . . • AMNS & IMP5 & ISM & Infrastructure & Conventions & Shot Journal & Numerical Tools & Visualization & Code Status & Code Catalog & Documentation Project & Verification and Validation & ITM Contact List in 2010 & Newsfeed & Glossary & EUFORIA & Search
https://www.efda-itm.eu/~wwwimp3/TEST/ITM/html/itm_glossary.html 09/07/10, 11597 bytes

Using XML for Code Specific Parameters★★★★

Using XML for Code Specific Parameters C. Konz ITM TF Kepler Training, Cadarache May 4, 2009 Outline: Code Specific Parameters Proposed Approach W3C XML Schemas and F95 XML Parser Tools for Autogeneration of Schemas XML Use for ITM Data Structures Motivation structures form the basis of
https://www.efda-itm.eu/~wwwimp3/TEST/ITM/imports/edgr/public/AVS2010/ERC3D_WS_5July/presentation_konz.pdf 08/27/10, 762677 bytes

