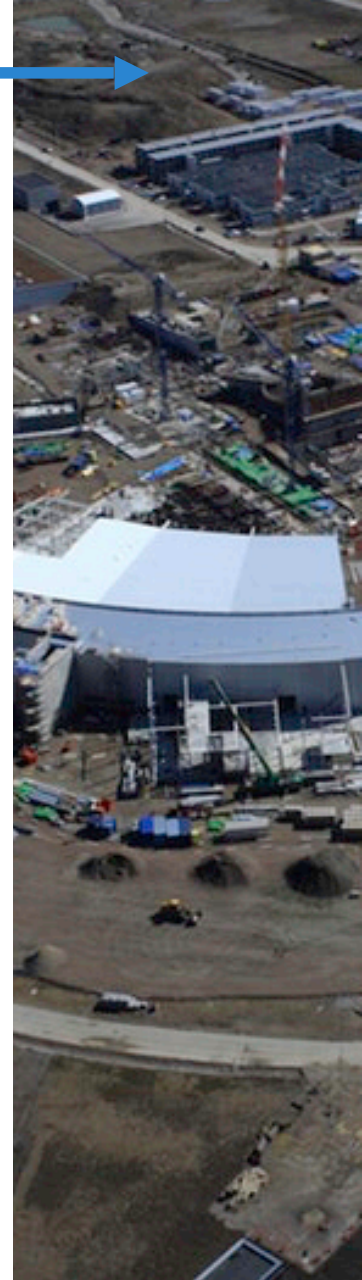


McStas Documentation and help sources

Help resources

- *McStas website*
- *The manual(s)*
- *mcdoc*
- *Mailing list + archive*
- *Github site*

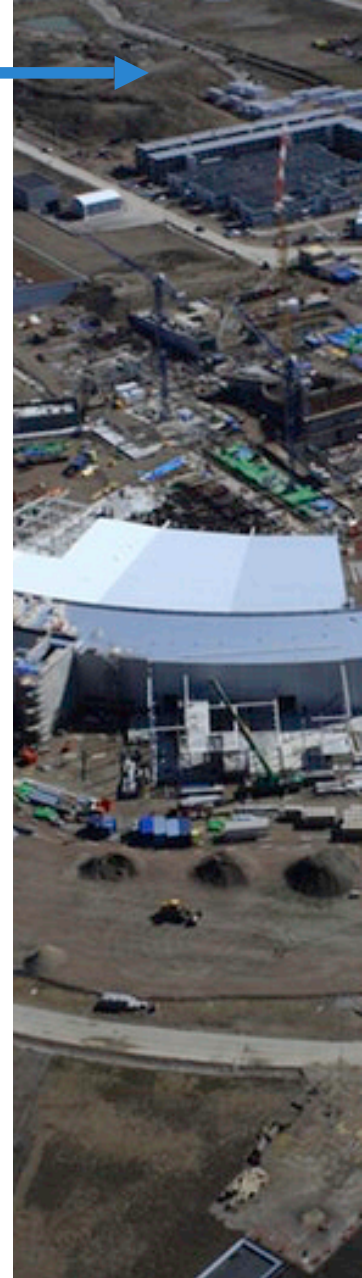
- *The examples catalogue*



McStas Documentation and help sources

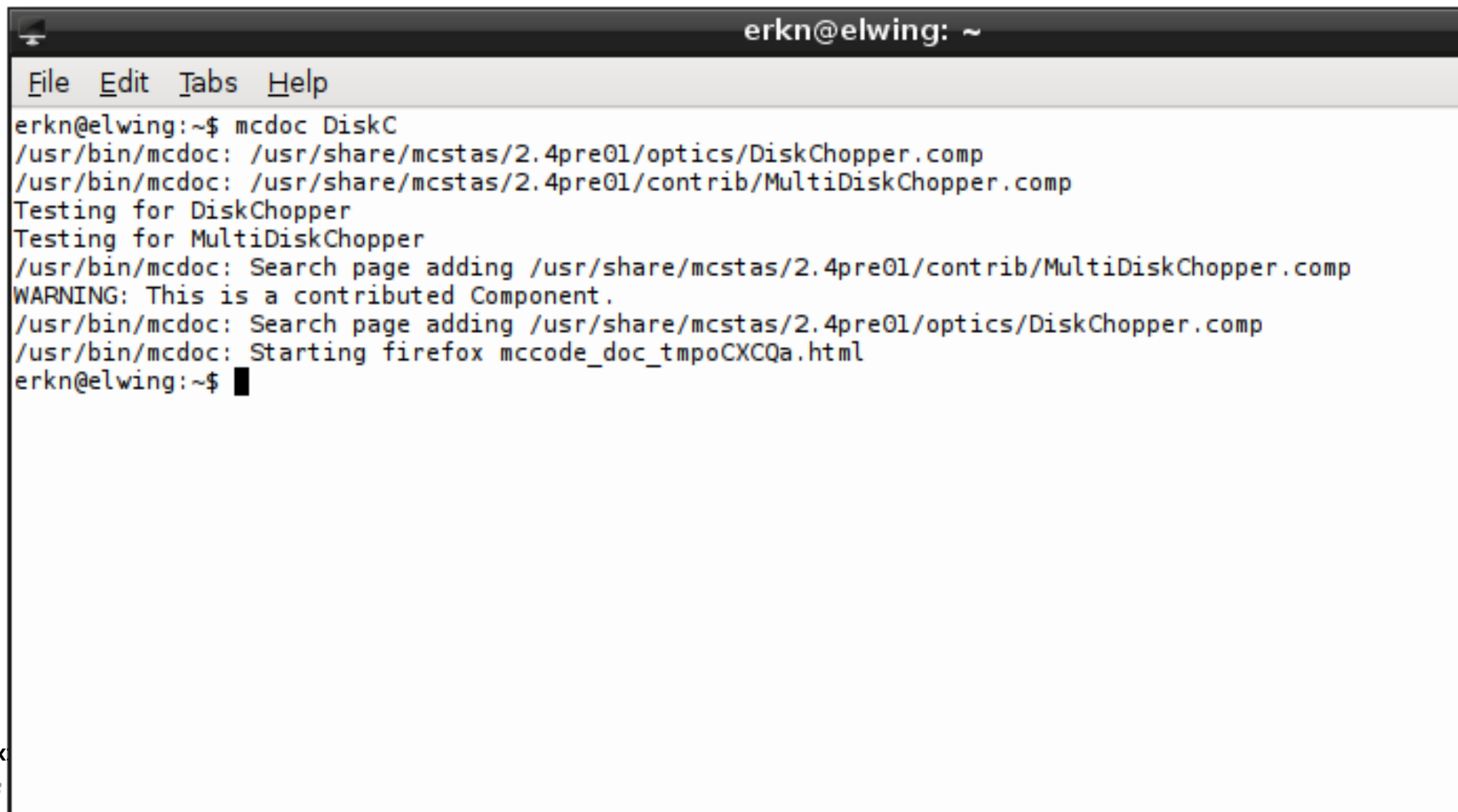
Help resources prioritized

- *mcdoc*
- *The examples catalogue*
- *The manual(s)*
- *McStas website*
- *Github site*
- *Mailing list + archive*



mcdoc

In a terminal:

A terminal window titled 'erkn@elwing: ~' with a menu bar containing 'File', 'Edit', 'Tabs', and 'Help'. The terminal output shows the execution of the 'mcdoc DiskC' command. It lists two component paths: '/usr/share/mcstas/2.4pre01/optics/DiskChopper.comp' and '/usr/share/mcstas/2.4pre01/contrib/MultiDiskChopper.comp'. It then performs tests for both, followed by search page additions and a warning for the contributed component. Finally, it starts a Firefox browser window with the URL 'mccode_doc_tmpoCXCQa.html'.

```
erkn@elwing:~$ mcdoc DiskC
/usr/bin/mcdoc: /usr/share/mcstas/2.4pre01/optics/DiskChopper.comp
/usr/bin/mcdoc: /usr/share/mcstas/2.4pre01/contrib/MultiDiskChopper.comp
Testing for DiskChopper
Testing for MultiDiskChopper
/usr/bin/mcdoc: Search page adding /usr/share/mcstas/2.4pre01/contrib/MultiDiskChopper.comp
WARNING: This is a contributed Component.
/usr/bin/mcdoc: Search page adding /usr/share/mcstas/2.4pre01/optics/DiskChopper.comp
/usr/bin/mcdoc: Starting firefox mccode_doc_tmpoCXCQa.html
erkn@elwing:~$
```

Result of search for "DiskC" in your McStas library

(Please note that only current dir /home/erkn and /usr/share/mcstas/2.4pre01 were searched, discarding 'obsolete' components)

Name	Origin	Author(s)	Source code	Description
MultiDiskChopper	ILL / FAU Erlangen- Nuernberg	Markus Appel	comp	Based on DiskChopper (Revision 1.18) by Peter Willendrup (2006), which in turn is based on Chopper (Philipp Bernhardt), Jitter and beamstop from work by Kaspar Hewitt Klenoe (jan 2006), adjustments by Rob Bewey (march 2006)
DiskChopper	Risoe	Peter Willendrup	comp	Based on Chopper (Philipp Bernhardt), Jitter and beamstop from work by Kaspar Hewitt Klenoe (jan 2006), adjustments by Rob Bewey (march 2006)

This Component list was updated on Mon Apr 24 08:51:08 2017.

[[McStas web site](#)]

Generated by mcdoc.pl, Maintained by Emmanuel Farhi <farhi@ill.fr>, Peter Willendrup <peter.willendrup@risoe.dk>, and Erik B Knudsen <erkn@fysik.dtu.dk>. Contact us for any comments.

[[Identification](#) | [Description](#) | [Input parameters](#) | [Output parameters](#) | [Links](#)]

The DiskChopper Component

Based on Chopper (Philipp Bernhardt), Jitter and beamstop from work by Kaspar Hewitt Klenoe (jan 2006), adjustments by Rob Bewey (march 2006)

Identification

- **Author:** Peter Willendrup
- **Origin:** Risoe
- **Date:** March 9 2006
- **Version:** \$Revision\$

Description

Models a disc chopper with `nslit` identical slits, which are symmetrically distributed on the disc. At time $t=0$, the centre of the first slit opening will be situated at the vertical axis when $\text{phase}=0$.

For more complicated geometries, see component manual example of DiskChopper GROUPing.

If the chopper is the 1st chopper of the instrument, it sets t time with phase
- Only relevant for when using continuous source modules.

Example: `DiskChopper(radius=0.2, theta_0=10, nu=41.7, nslit=3, delay=0, isfirst=1)` First chopper
`DiskChopper(radius=0.2, theta_0=10, nu=41.7, nslit=3, delay=0, isfirst=0)`

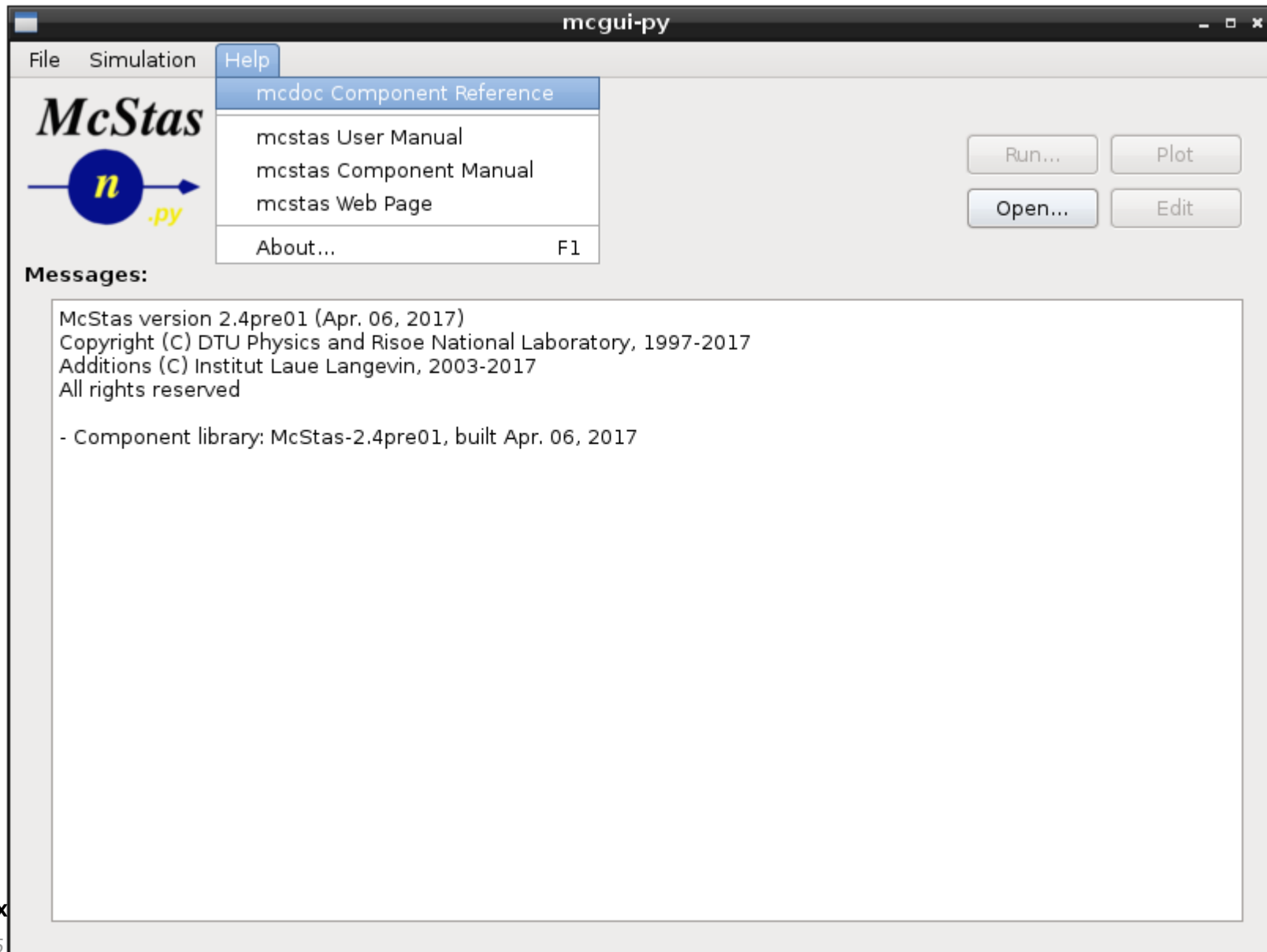
Input parameters

Parameters in **boldface** are required; the others are optional.

Name	Unit	Description	Default
<code>theta_0</code>	deg	Angular width of the slits.	0
<code>radius</code>	m	Radius of the disc	0.5
<code>yheight</code>	m	Slit height (if = 0, equal to radius). Auto centering of beam at half height.	
<code>nu</code>	Hz	Frequency of the Chopper, $\omega=2\pi\nu$ (algebraic sign defines the direction of rotation)	
<code>nslit</code>	1	Number of slits, regularly arranged around the disk	3
<code>jitter</code>	s	Jitter in the time phase	0

mcdoc

From the GUI



[[sources](#) | [optics](#) | [samples](#) | [monitors](#) | [misc](#) | [contrib](#) | [examples](#)]

[[User Manual](#) | [Component Manual](#) | [Data files](#) | [/usr/share/mcstas/2.4pre01/tools/Python/mcgui/./mccodelib/./././](#)]

Components and Instruments from the Library for *McStas*

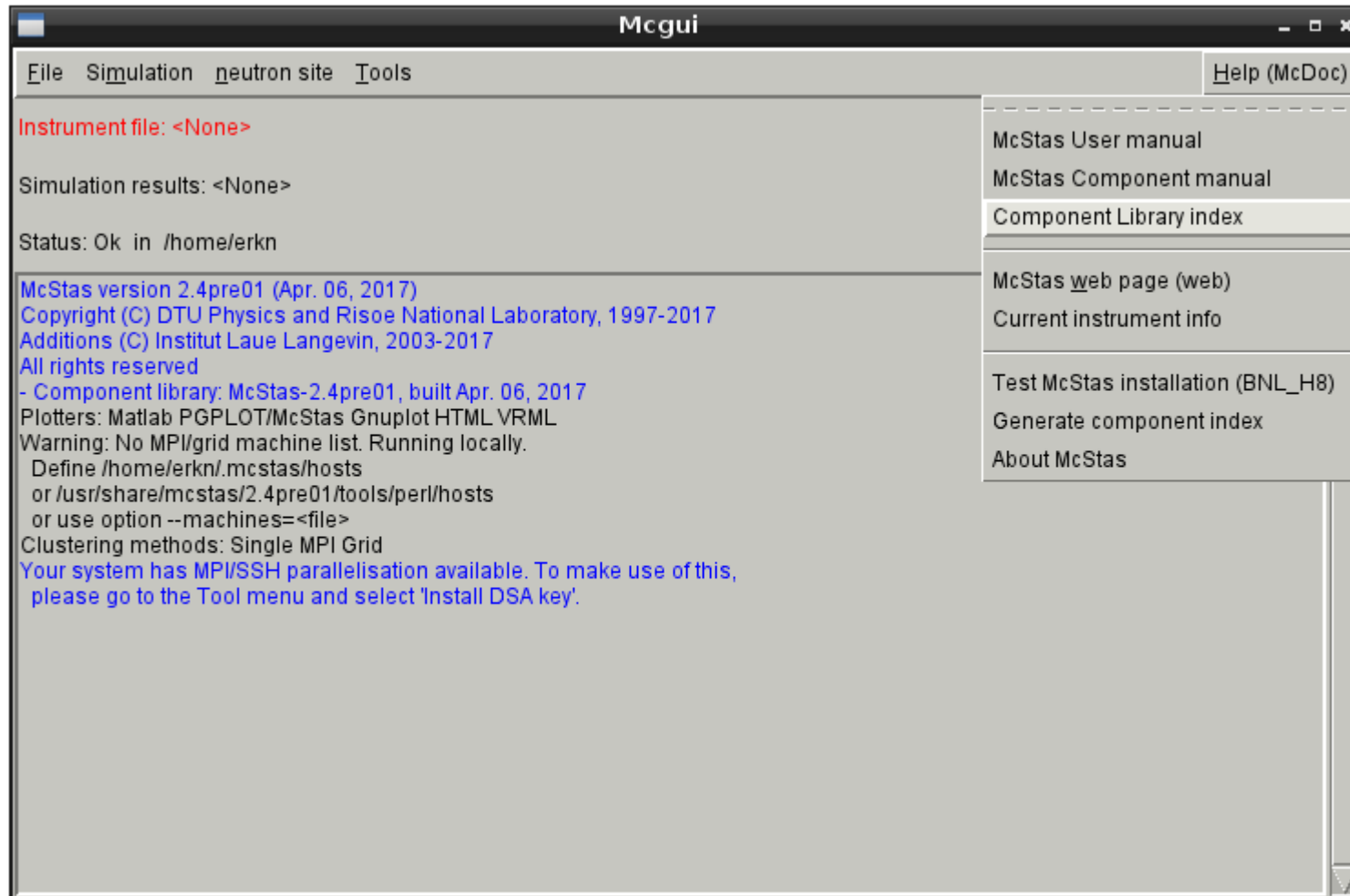
Names in **Boldface** denote components that are properly documented with comments in the source code.

Sources

<i>Name</i>	<i>Origin</i>	<i>Author(s)</i>	<i>Source code</i>	<i>Description</i>
Adapt_check	Risoe	Kristian Nielsen	comp	Optimization specifier for the Source_adapt component.
ESS_butterfly	DTU	Peter Willendrup and Esben Klinkby	comp	ESS butterfly moderator, 2016 revision
ESS_moderator	DTU	P Willendrup and E Klinkby, February 2014, derived from K Lefmann ESS_moderator_long	comp	A parametrised pulsed source for modelling ESS long pulses.
Moderator	Risoe	KN, M.Hagen	comp	A simple pulsed source for time-of-flight.
Monitor_Optimizer	ILL (France)	Emmanuel Farhi	comp	To be used after the Source_Optimizer component
Source_Maxwell_3	Risoe	Kim Lefmann	comp	Source with up to three Maxwellian distributions
Source_Optimizer	ILL (France)	Emmanuel Farhi	comp	A component that optimizes the neutron flux passing through the Source_Optimizer in order to have the maximum flux at the Monitor_Optimizer position.
Source_adapt	Risoe	Kristian Nielsen	comp	Neutron source with adaptive importance sampling
Source_div	Risoe	KL	comp	Neutron source with Gaussian or uniform divergence
Source_gen	ILL/Risoe	Emmanuel Farhi, Kim Lefmann	comp	Circular/squared neutron source with flat or Maxwellian energy/wavelength spectrum
Source_simple	Risoe	Kim Lefmann	comp	A circular neutron source with flat energy spectrum and arbitrary flux
Virtual_input	ILL	E. Farhi	comp	Source-like component that generates neutron events from an ascii 'virtual source' filename.
Virtual_output	ILL	E. Farhi	comp	Detector-like component that writes neutron state parameters into an ascii-format 'virtual source' neutron file.

mcdoc

From the old GUI



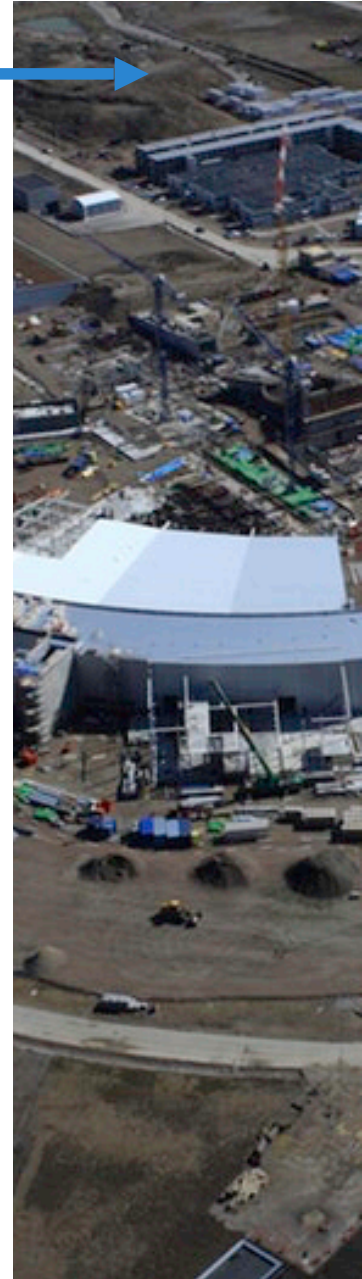
mcdoc

...but let me show you instead

- *Simple grep* →
 - 370 examples of *Monitor_nD*
 - 51 examples of *Source_gen*
 - 10 examples of *ISIS_moderator*
 - 10 examples of *Single_crystal*

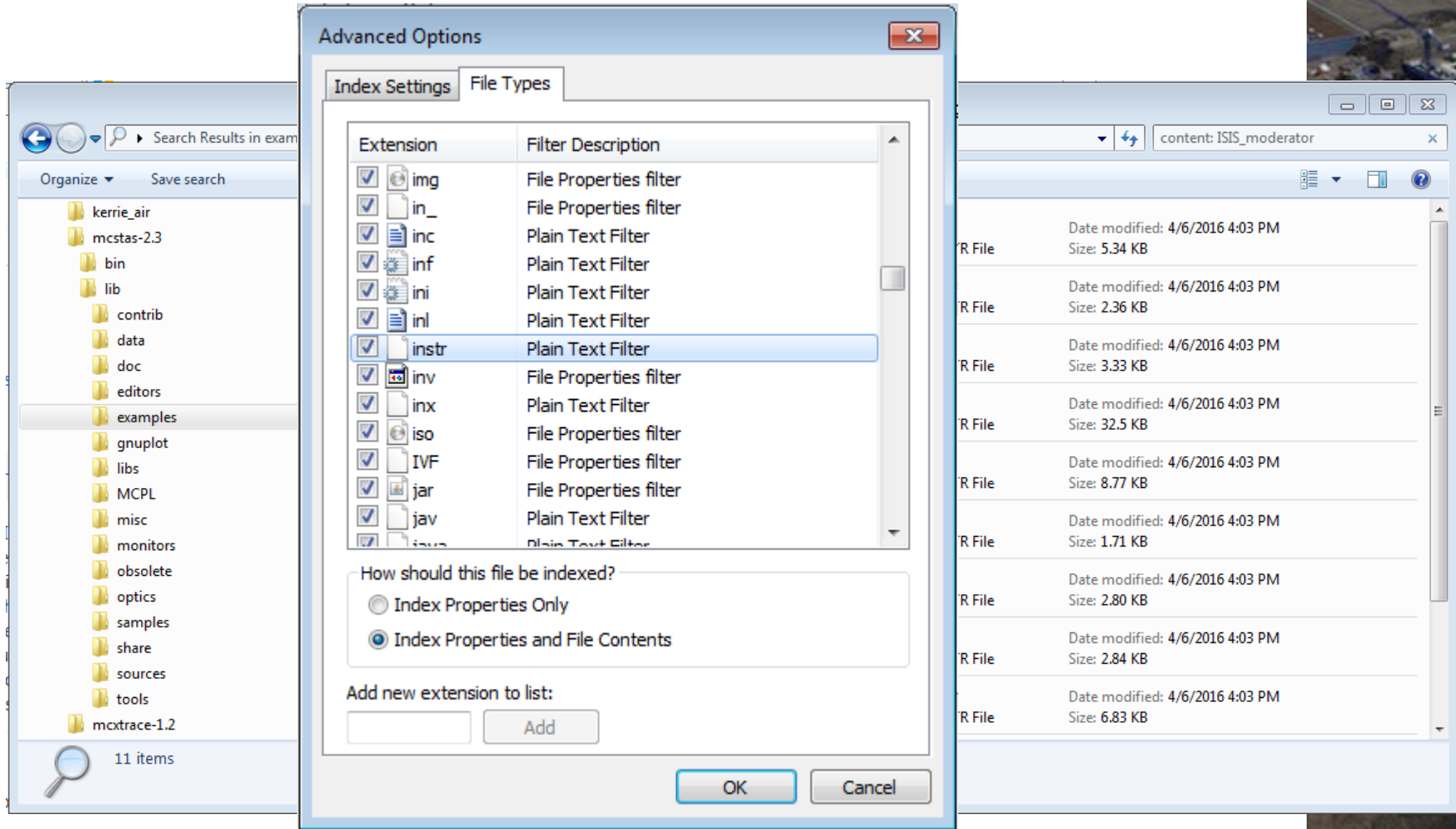
Unix/Linux:

```
grep ISIS_moderator /usr/share/mcstas/2.4pre01/examples/*
```



Examples Directory

Windows 7: Edit search settings first to search contents of .instr files



The screenshot shows a Windows 7 search results window with the 'Advanced Options' dialog box open. The 'File Types' tab is active, showing a list of file extensions and their corresponding filter descriptions. The '.instr' extension is selected, and the 'Index Properties and File Contents' option is chosen for indexing.

Extension	Filter Description
<input checked="" type="checkbox"/> img	File Properties filter
<input checked="" type="checkbox"/> in_	File Properties filter
<input checked="" type="checkbox"/> inc	Plain Text Filter
<input checked="" type="checkbox"/> inf	Plain Text Filter
<input checked="" type="checkbox"/> ini	Plain Text Filter
<input checked="" type="checkbox"/> inl	Plain Text Filter
<input checked="" type="checkbox"/> instr	Plain Text Filter
<input checked="" type="checkbox"/> inv	File Properties filter
<input checked="" type="checkbox"/> inx	Plain Text Filter
<input checked="" type="checkbox"/> iso	File Properties filter
<input checked="" type="checkbox"/> IVF	File Properties filter
<input checked="" type="checkbox"/> jar	File Properties filter
<input checked="" type="checkbox"/> jav	Plain Text Filter
<input checked="" type="checkbox"/> isus	Plain Text Filter

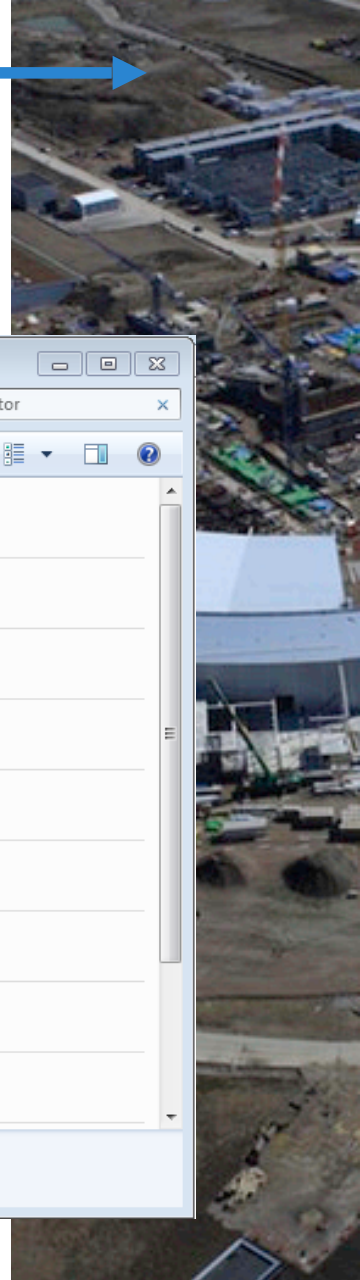
How should this file be indexed?

Index Properties Only

Index Properties and File Contents

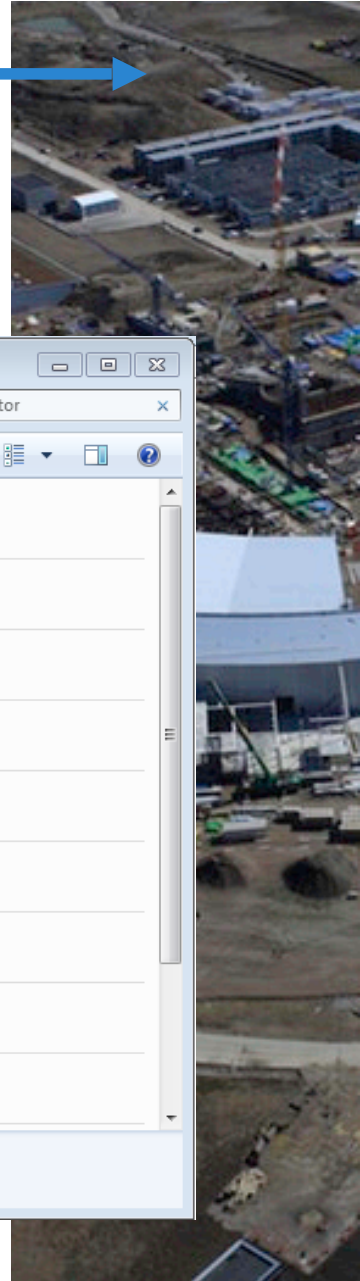
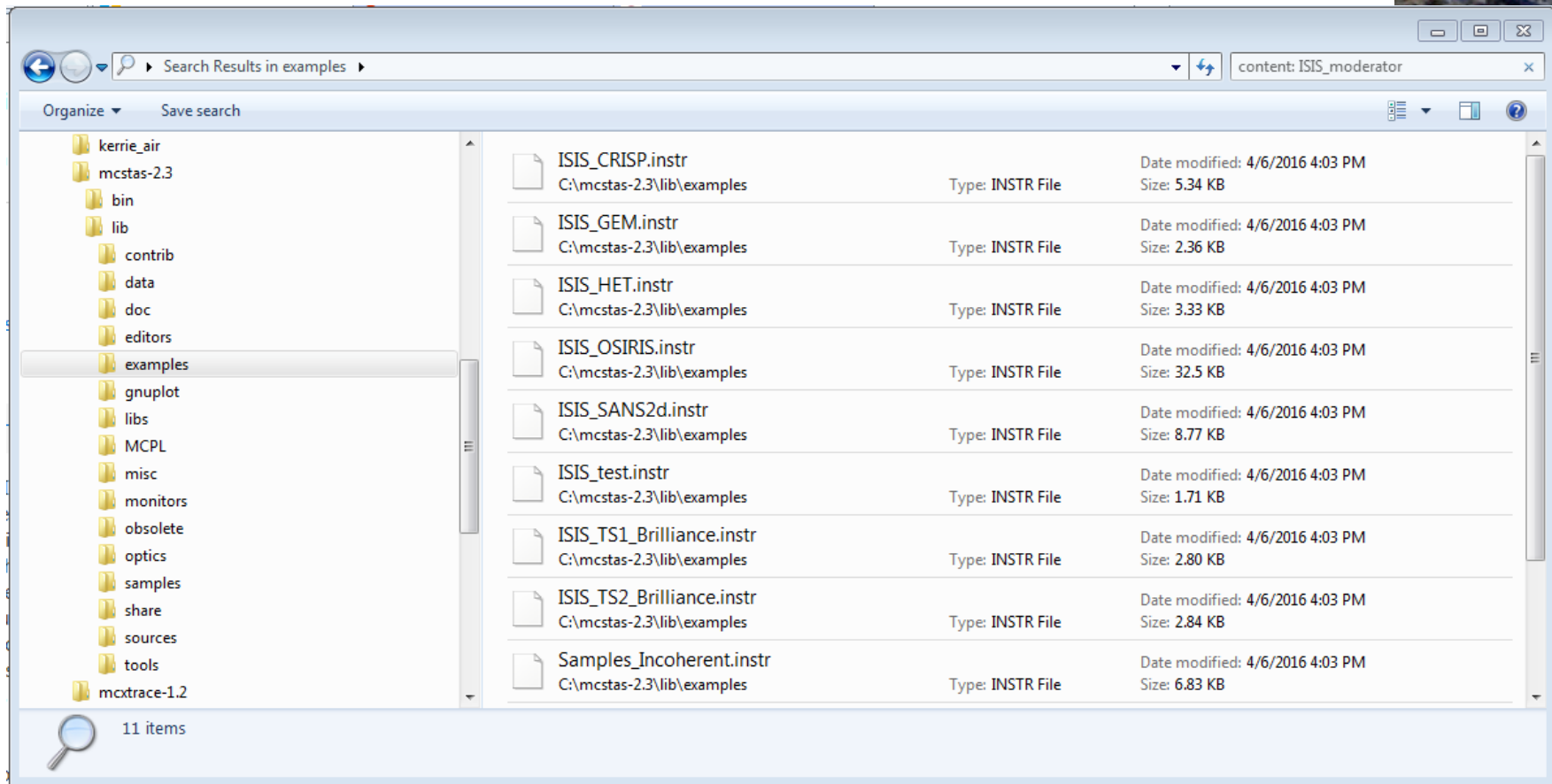
Add new extension to list:

OK Cancel



Examples Directory

Windows 7: Edit search settings first to search contents of .instr files



- *Simple grep* →
 - 370 examples of Monitor nD

They have an author name!

For instance:

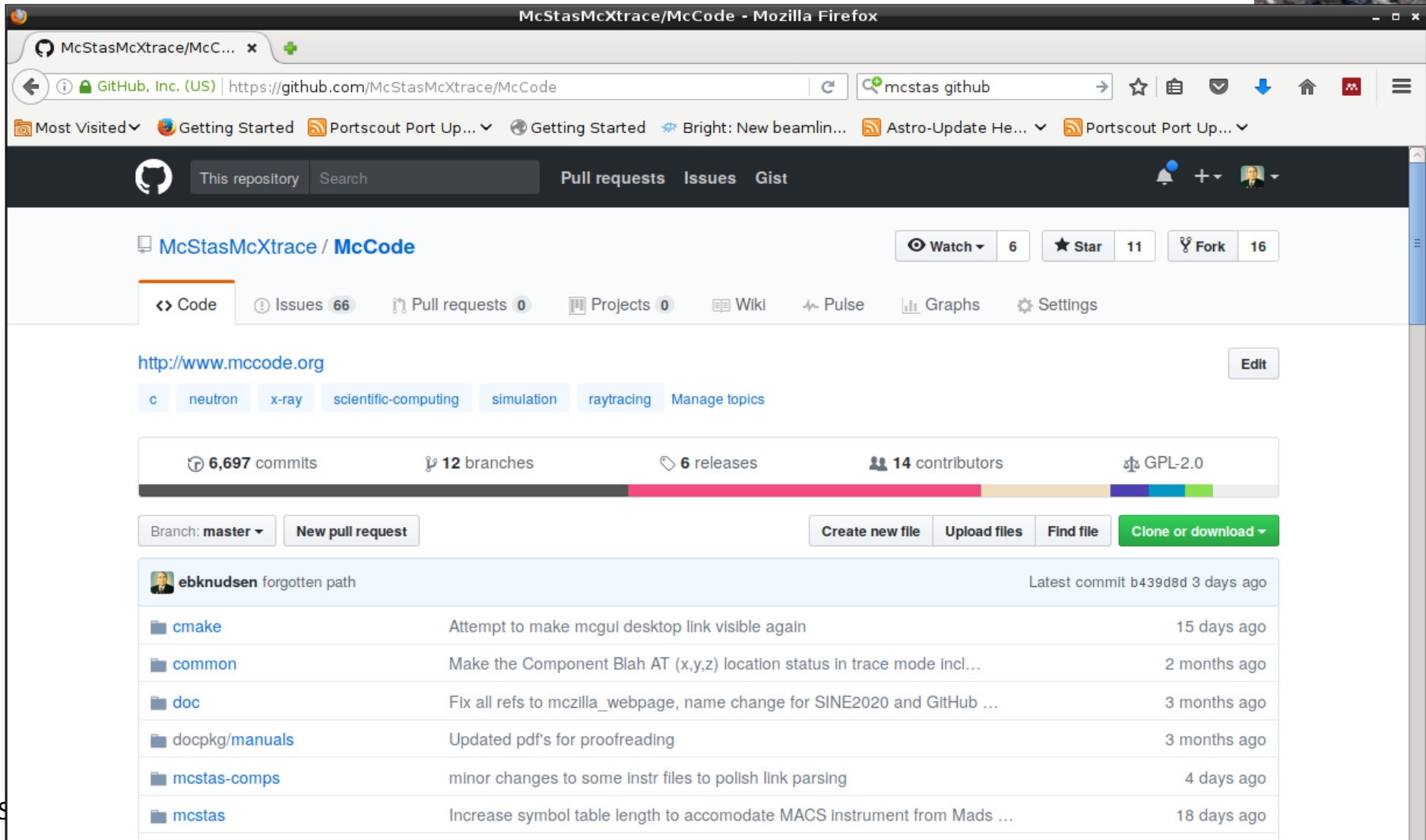
ISIS_CRISP → R. Dalgliesh

SE_example → me (E. Knudsen)



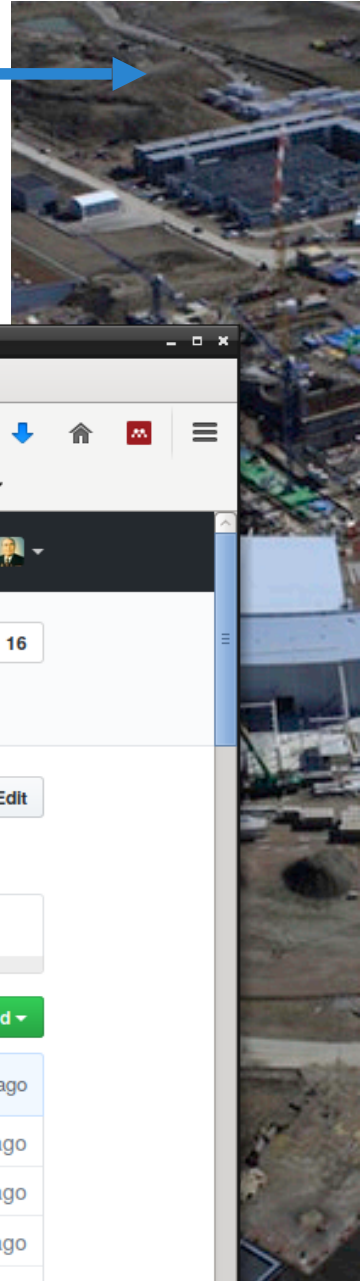
GitHub.com

<https://github.com/McStasMcXtrace/McCode>



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

- Browser Title:** McStasMcXtrace/McCode - Mozilla Firefox
- Address Bar:** <https://github.com/McStasMcXtrace/McCode>
- Repository Name:** McStasMcXtrace / **McCode**
- Actions:** Watch (6), Star (11), Fork (16)
- Navigation:** Code (selected), Issues (66), Pull requests (0), Projects (0), Wiki, Pulse, Graphs, Settings
- Website:** <http://www.mccode.org> (with an Edit button)
- Topics:** c, neutron, x-ray, scientific-computing, simulation, raytracing, Manage topics
- Stats:** 6,697 commits, 12 branches, 6 releases, 14 contributors, GPL-2.0 license
- Branch:** master (with a New pull request button)
- Actions:** Create new file, Upload files, Find file, Clone or download
- Recent Commits:**
 - ebknudsen** forgotten path (Latest commit b439d8d 3 days ago)
 - cmake** Attempt to make mcgui desktop link visible again (15 days ago)
 - common** Make the Component Blah AT (x,y,z) location status in trace mode Incl... (2 months ago)
 - doc** Fix all refs to mczilla_webpage, name change for SINE2020 and GitHub ... (3 months ago)
 - docpkg/manuals** Updated pdf's for proofreading (3 months ago)
 - mcstas-comps** minor changes to some instr files to polish link parsing (4 days ago)
 - mcstas** Increase symbol table length to accomodate MACS instrument from Mads ... (18 days ago)

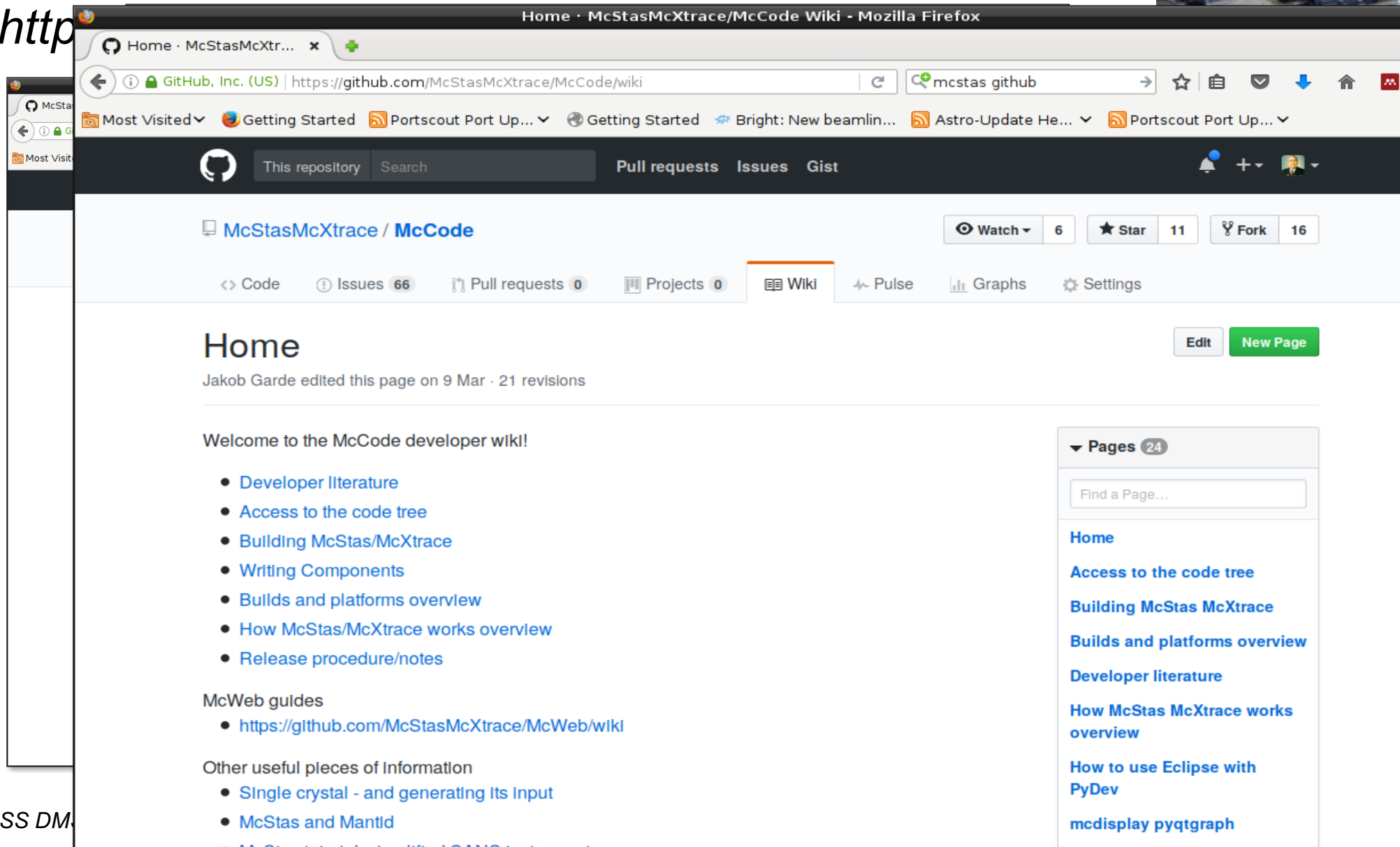


GitHub.com: wiki

Mostly developer oriented docs so far



http



Home · McStasMcXtrace/McCode Wiki - Mozilla Firefox

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GitHub, Inc. (US) | https://github.com/McStasMcXtrace/McCode/wiki

mcstas github

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Home

Jakob Garde edited this page on 9 Mar · 21 revisions

Welcome to the McCode developer wiki!

- Developer literature
- Access to the code tree
- Building McStas/McXtrace
- Writing Components
- Builds and platforms overview
- How McStas/McXtrace works overview
- Release procedure/notes

McWeb guides

- <https://github.com/McStasMcXtrace/McWeb/wiki>

Other useful pieces of Information

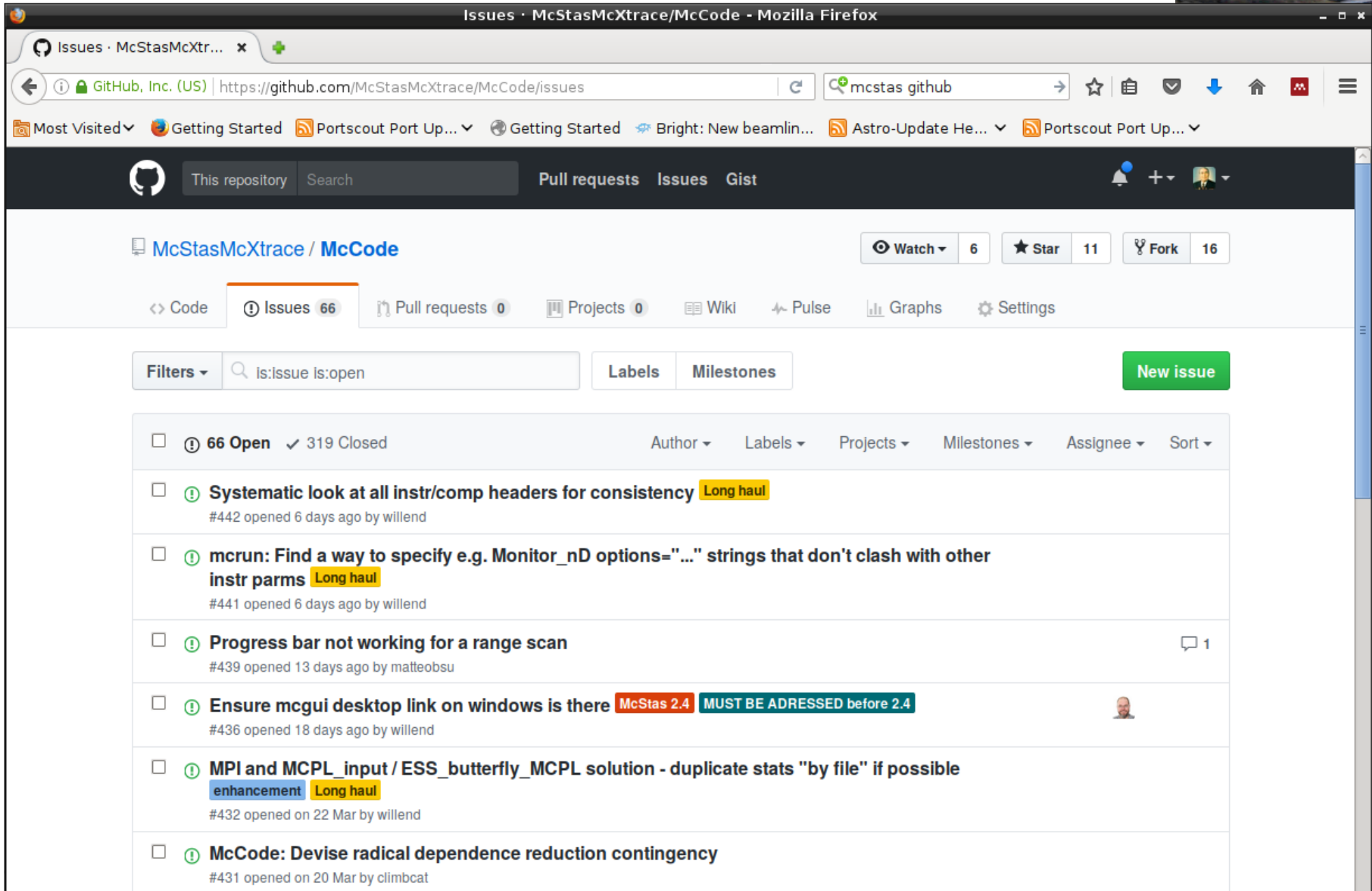
- Single crystal - and generating its input
- McStas and Mantid

Pages 24

Find a Page...

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- Builds and platforms overview
- Developer literature
- How McStas McXtrace works overview
- How to use Eclipse with PyDev
- mcdisplay pyqtgraph

GitHub.com: Issue Tracker



Issues · McStasMcXtrace/McCode - Mozilla Firefox

Issues · McStasMcXtr... x +

GitHub, Inc. (US) | https://github.com/McStasMcXtrace/McCode/issues

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<> Code Issues 66 Pull requests 0 Projects 0 Wiki Pulse Graphs Settings

Filters is:issue is:open Labels Milestones New issue

66 Open 319 Closed Author Labels Projects Milestones Assignee Sort

- Systematic look at all instr/comp headers for consistency** Long haul
#442 opened 6 days ago by willend
- mcrun: Find a way to specify e.g. Monitor_nD options="..." strings that don't clash with other instr parms** Long haul
#441 opened 6 days ago by willend
- Progress bar not working for a range scan**
#439 opened 13 days ago by matteobsu
- Ensure mcgui desktop link on windows is there** McStas 2.4 MUST BE ADRESSED before 2.4
#436 opened 18 days ago by willend
- MPI and MCPL_input / ESS_butterfly_MCPL solution - duplicate stats "by file" if possible** enhancement Long haul
#432 opened on 22 Mar by willend
- McCode: Devise radical dependence reduction contingency**
#431 opened on 20 Mar by climbcat








Mailing List



McStas homepage - Mozilla Firefox

www.mcstas.org/list/

McStas - A neutron ray-trace simulation package

mcstas-users mailing list

To subscribe to mcstas-users, fill in your email adress and press subscribe:

To acces the mailing list interface, go to <http://mailman.mcstas.org/cgi-bin/mailman/listinfo/mcstas-users>

To acces archived messages, go to <http://mailman.mcstas.org/pipermail/mcstas-users>.

New: Search capability has now been [added](#) to the website!

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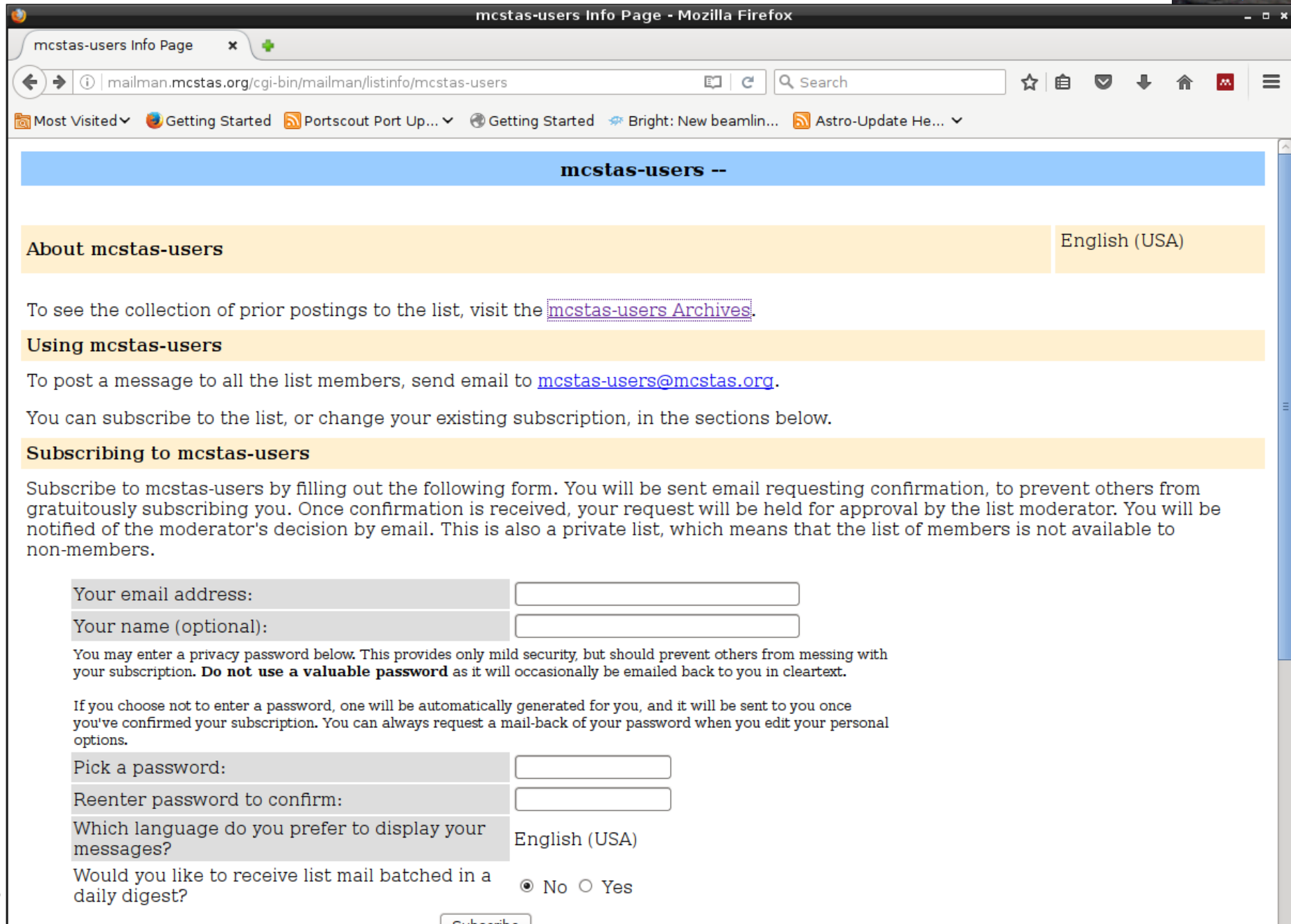
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mcstas-users --

About mcstas-users English (USA)

To see the collection of prior postings to the list, visit the [mcstas-users Archives](#).

Using mcstas-users

To post a message to all the list members, send email to mcstas-users@mcstas.org.

You can subscribe to the list, or change your existing subscription, in the sections below.

Subscribing to mcstas-users

Subscribe to mcstas-users by filling out the following form. You will be sent email requesting confirmation, to prevent others from gratuitously subscribing you. Once confirmation is received, your request will be held for approval by the list moderator. You will be notified of the moderator's decision by email. This is also a private list, which means that the list of members is not available to non-members.

Your email address:

Your name (optional):

You may enter a privacy password below. This provides only mild security, but should prevent others from messing with your subscription. **Do not use a valuable password** as it will occasionally be emailed back to you in cleartext.

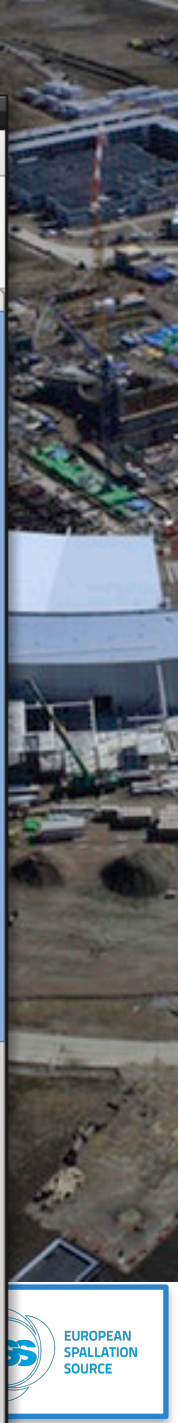
If you choose not to enter a password, one will be automatically generated for you, and it will be sent to you once you've confirmed your subscription. You can always request a mail-back of your password when you edit your personal options.

Pick a password:

Reenter password to confirm:

Which language do you prefer to display your messages? English (USA)

Would you like to receive list mail batched in a daily digest? No Yes



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mailman.mcstas.org/pipermail/mcstas-users/

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First quarter 2017:	[Thread] [Subject] [Author] [Date]	[Gzip'd Text 4 KB]
Fourth quarter 2016:	[Thread] [Subject] [Author] [Date]	[Gzip'd Text 7 KB]
Third quarter 2016:	[Thread] [Subject] [Author] [Date]	[Gzip'd Text 6 KB]
Second quarter 2016:	[Thread] [Subject] [Author] [Date]	[Gzip'd Text 4 KB]
First quarter 2016:	[Thread] [Subject] [Author] [Date]	[Gzip'd Text 5 KB]
Fourth quarter 2015:	[Thread] [Subject] [Author] [Date]	[Gzip'd Text 12 KB]
Third quarter 2015:	[Thread] [Subject] [Author] [Date]	[Gzip'd Text 5 KB]
Second quarter 2015:	[Thread] [Subject] [Author] [Date]	[Gzip'd Text 14 KB]
First quarter 2015:	[Thread] [Subject] [Author] [Date]	[Gzip'd Text 13 KB]
Fourth quarter 2014:	[Thread] [Subject] [Author] [Date]	[Gzip'd Text 12 KB]
Third quarter 2014:	[Thread] [Subject] [Author] [Date]	[Gzip'd Text 13 KB]
Second quarter 2014:	[Thread] [Subject] [Author] [Date]	[Gzip'd Text 5 KB]
First quarter 2014:	[Thread] [Subject] [Author] [Date]	[Gzip'd Text 9 KB]
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Third quarter 2013:	[Thread] [Subject] [Author] [Date]	[Gzip'd Text 59 KB]
Second quarter 2013:	[Thread] [Subject] [Author] [Date]	[Gzip'd Text 12 KB]
First quarter 2013:	[Thread] [Subject] [Author] [Date]	[Gzip'd Text 15 KB]
Fourth quarter 2012:	[Thread] [Subject] [Author] [Date]	[Gzip'd Text 15 KB]
Third quarter 2012:	[Thread] [Subject] [Author] [Date]	[Gzip'd Text 3 KB]
Second quarter 2012:	[Thread] [Subject] [Author] [Date]	[Gzip'd Text 7 KB]

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