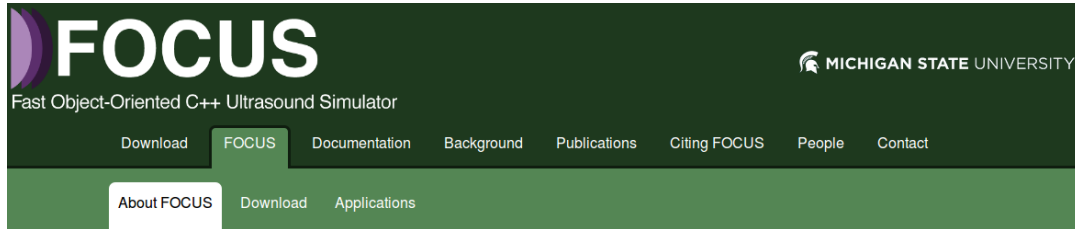



FOCUS Installation Guide

Michigan State University

November 18, 2013

1. If you're using Windows, make sure you have installed the Microsoft Visual C++ 2008 SP1 Redistributable Package ([32-bit](#) or [64-bit](#)).
2. Visit the [FOCUS website](#) and click the big green "Download FOCUS" button. This will take you to the download page where you can choose a version of FOCUS to install.





FOCUS
Fast Object-Oriented C++ Ultrasound Simulator

FOCUS is a free cross-platform ultrasound simulation tool that quickly and accurately calculates pressure fields generated by single transducers and phased arrays.

Download FOCUS
Version 0.498

[Learn More about FOCUS](#)

Changes

What's new in version 0.498?

- We will no longer be supporting MATLAB R2008b and older. FOCUS version 0.419 will be the last version compiled for these MATLAB releases.
- ASA routines and documentation have been dramatically improved in FOCUS version 0.419.
- FOCUS now supports ring transducers!

See the [release notes](#) for more details.

Features

FOCUS is **simple** to use for both experts and non-experts from any supported version of MATLAB.

Demos



Radiation Force

3. Click the "Download FOCUS" button to get FOCUS for your operating system or click the "Different Version" button to choose an OS and MATLAB version. Older versions of FOCUS can also be found by following the previous versions link at the bottom of the section.

Download FOCUS

As of version 0.419 we no longer support MATLAB R2008b and older. FOCUS version 0.419 is the last version available for these MATLAB versions.

The newest version of FOCUS is **version 0.498**, uploaded on **19 April, 2013**.



Download FOCUS
Version 0.498 for MATLAB R2012b



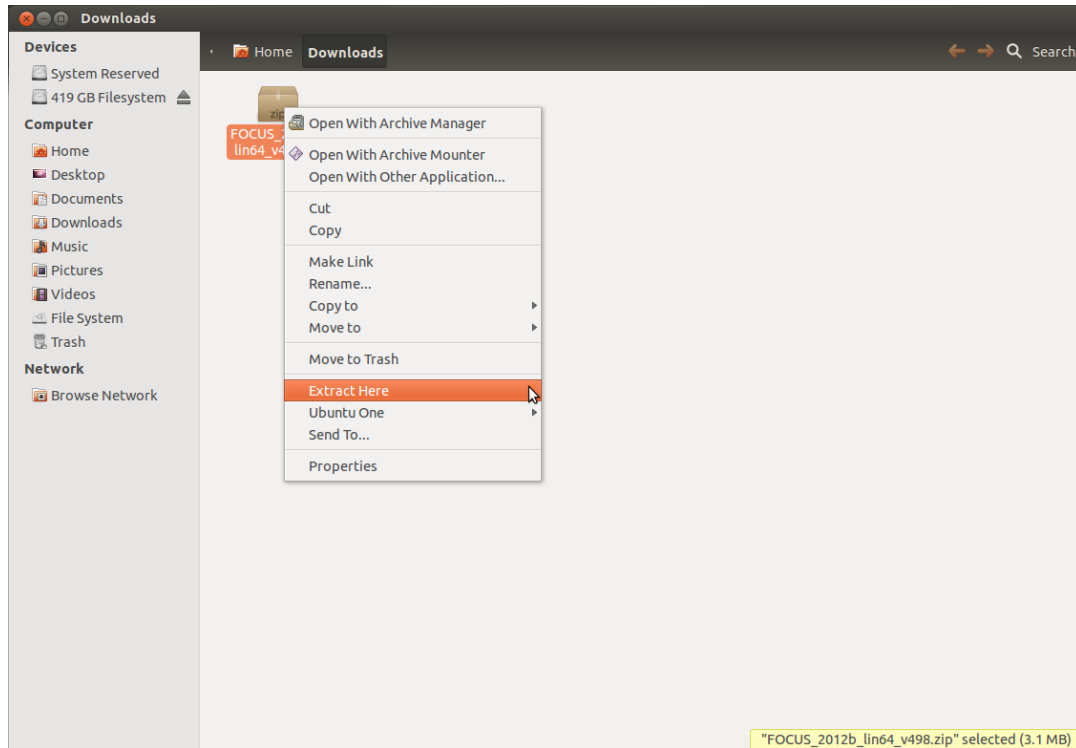
Different Version
Choose a different version of FOCUS

View the [release notes](#) for this version of FOCUS.

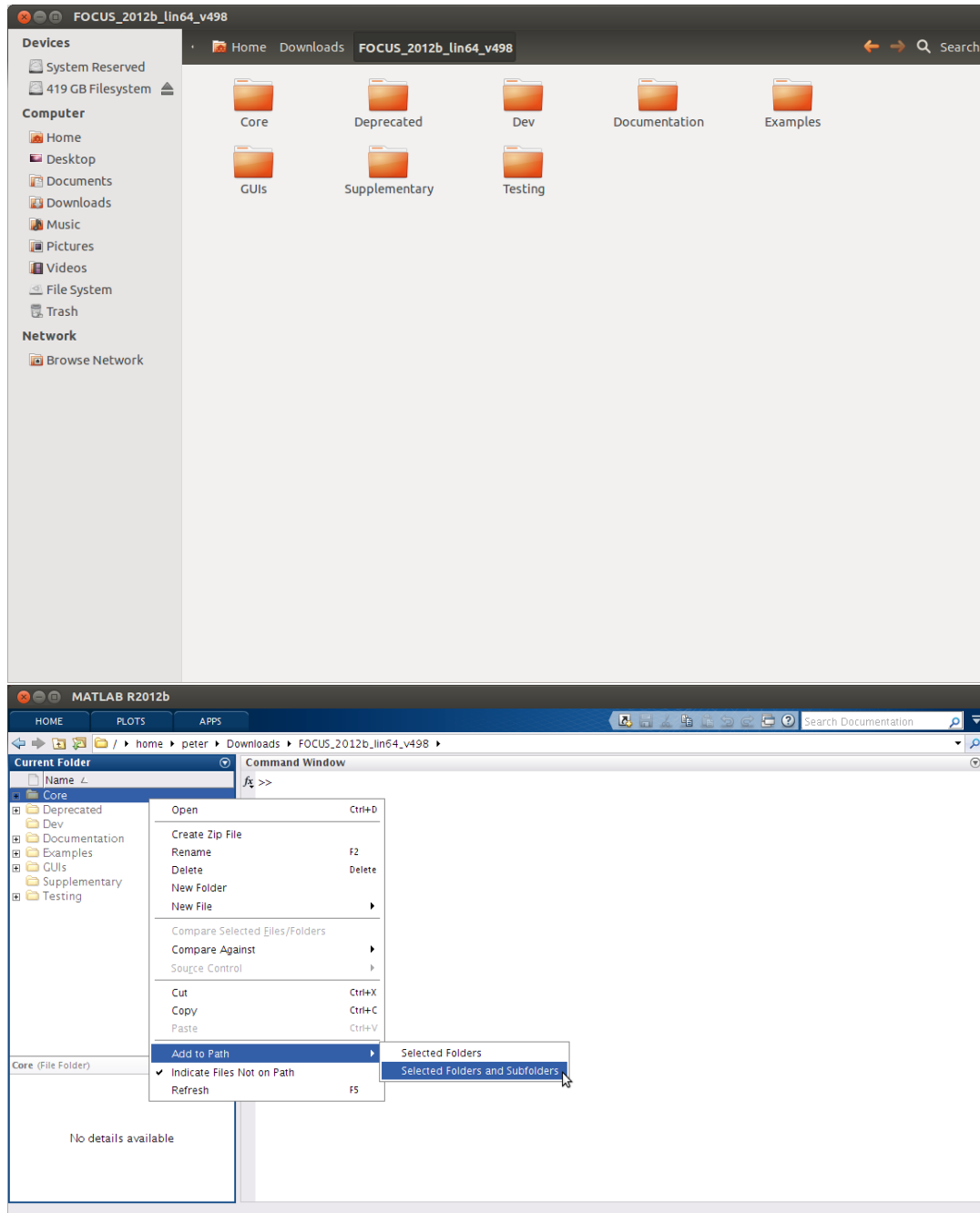
		MATLAB R2009b	MATLAB R2010a	MATLAB R2011b	MATLAB R2012b
32-bit	Windows	Version 0.498	Version 0.498	Version 0.498	Version 0.498
	Linux	Version 0.498	Version 0.498	Version 0.498	✗
64-bit	Windows	Version 0.498	Version 0.498	Version 0.498	Version 0.498
	Linux	Version 0.498	Version 0.498	Version 0.498	Version 0.498

Download a [previous version](#) of FOCUS.

4. You will now be redirected to a page containing a link to the file you chose to download. The download will begin automatically and your browser will save the file to your local computer.
5. Find the .zip file that contains FOCUS (named something like "FOCUS_2012b_lin64_v498.zip"). Unzip the contents of this file using your operating system's archive utility and store the resulting folders somewhere easily accessible.



6. You should now have the FOCUS directory tree on your system. In it, there is a folder called "Core" which contains all of the critical M-files and MEX functions that make up FOCUS. Add this directory and its subdirectories to your MATLAB path to start using FOCUS.



7. That's it! You can now start using FOCUS to write your own ultrasound simulations. There are examples located in /Examples and [guides available on our website](#) to help you get started.