

# Improving Programmer Productivity and Software Sustainability

Resources from the IDEAS Scientific Software Productivity Project  
[ideas-productivity.org/resources/howtos/](http://ideas-productivity.org/resources/howtos/)



***The IDEAS Scientific Software Productivity Project is dedicated to improving programmer productivity and software sustainability for extreme-scale computational science and engineering (CSE).***

The following documents provide definitions (“What Is...”) and strategies (“How to...”) targeted at CSE software teams.

- *What Is CSE Software Productivity?*
- *What Is Software Configuration?*
- *How to Configure Software*
- *What Is Performance Portability?*
- *How to Enable Performance Portability*
- *What Is CSE Software Testing?*
- *What Are Software Testing Practices?*
- *How to Add and Improve Testing in a CSE Software Project*
- *What Is Good Documentation?*
- *How to Write Good Documentation*
- *What Are Interoperable Software Libraries?*
- *What Is Version Control?*
- *How to Do Version Control with Git*

