



Background

For many transmission planners, PSLF is the main tool used to satisfy a variety of NERC compliance requirements. A key element of the NERC TPL standards is to perform both steady state and dynamic N-1 and N-1-1 contingency analysis. To satisfy these requirements, the GE PSLF team has developed a set of ancillary tools to process contingencies and provided them to PSLF customers free of charge :

- SSTOOLS – Steady State Contingency Analysis
- DYTOOLS – Dynamic Contingency Analysis

SSTOOLS has become the standard tool for processing steady state contingencies. While the PSLF engine is very fast in processing individual contingencies, the number of contingencies processed can be very large. This can lead to runtimes that span multiple days of compute time.

What is PSLF HPC/SSTOOLS++?

PSLF HPC/SSTOOLS++ is our integrated solution for significantly reducing the runtime associated with SSTOOLS. With demonstrated **runtime reductions of over 90%**, we can take your simulation time down from hours to minutes depending on the number of concurrent cores (units of work) available to execute simulations. The runtime reductions are roughly linear according to the concurrent cores. PSLF HPC/SSTOOLS++ has been designed to minimize the impact to planners that currently use SSTOOLS. Essentially, the only change to the process is that results will be available in a fraction of the time!!

Can I Try PSLF HPC/SSTOOLS++?

PSLF HPC/SSTOOLS++ is available to any existing PSLF licensee. If you are interested in significantly reducing your SSTOOLS runtimes, then please contact pslf.sales@ge.com to arrange a demonstration and trial installation. We are happy to work with you to arrive at a solution that meets your needs.

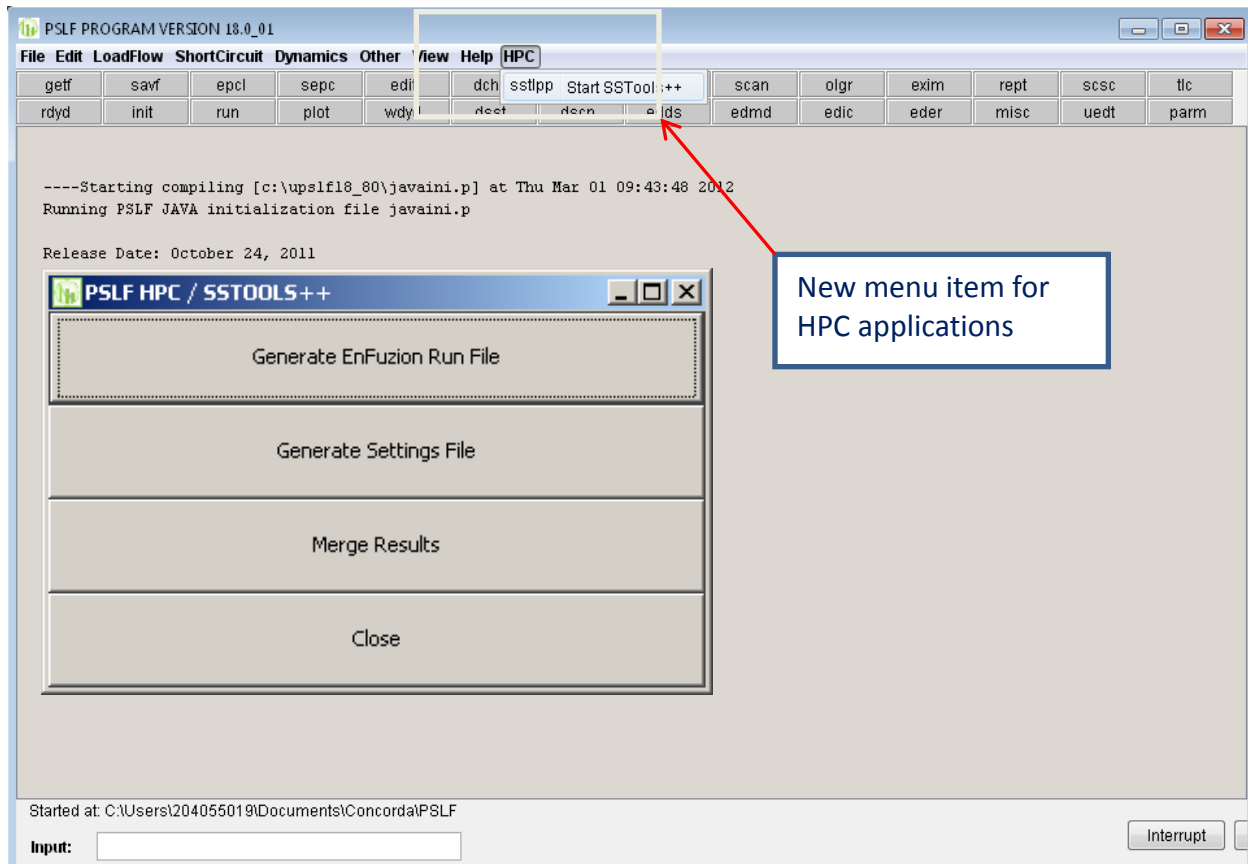
Is there a cost associated with PSLF HPC/SSTOOLS++?

Although SSTOOLS has been provided to PSLF users at no charge, PSLF HPC/SSTOOLS++ is a licensed program. A single-user basic installation of PSLF HPC/SSTOOLS++ supporting the minimum of 16 cores is available for \$3,500. For exceptional performance across your entire enterprise, a ten-user instance of PSLF HPC/SSTOOLS++ running on 64 cores costs as little as \$29,200. In addition to these fees, there is a charge to license a third party job scheduling tool.

PSLF HPC/SSTOOLS++ can be licensed for any number of users and cores, so please contact pslf.sales@ge.com for an exact quote.



GE Energy Consulting



New menu item for HPC applications

Additional HPC menu item and Configuration Menu

Benefits of PSLF HPC/SSTOOLS++

- Take advantage of existing or dedicated computing hardware
- Consistent processing framework reduces re-work due to inconsistent data files
- Work is scheduled among many machines without human interaction
- Job scheduling is flexible with options for prioritization of work and adding/removing machines from computer pool
- Allows engineers to focus on results analysis

Who needs this software?

Consultants, transmission planners, or anyone involved in performing contingency analysis for NERC compliance.

Who to contact

For more information on PSLF software contact: pslf.sales@ge.com

<http://www.ge-concorda.com>

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