

Parallel Computing using Amazon Cloud and GNU Octave Parallel Package

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Parallel Computing using Amazon Cloud and GNU Octave Parallel Package

Often to analyze mechanisms or reactors you will want to run the same simulation with 1000s of different parameter combinations, to analyze engine behavior or other tasks.

Amazon Cloud

Local Computer:
-Load data.mat and
plot graphs

Master Computer:
-Sends out
commands to
slaves
-Saves results to
data.mat

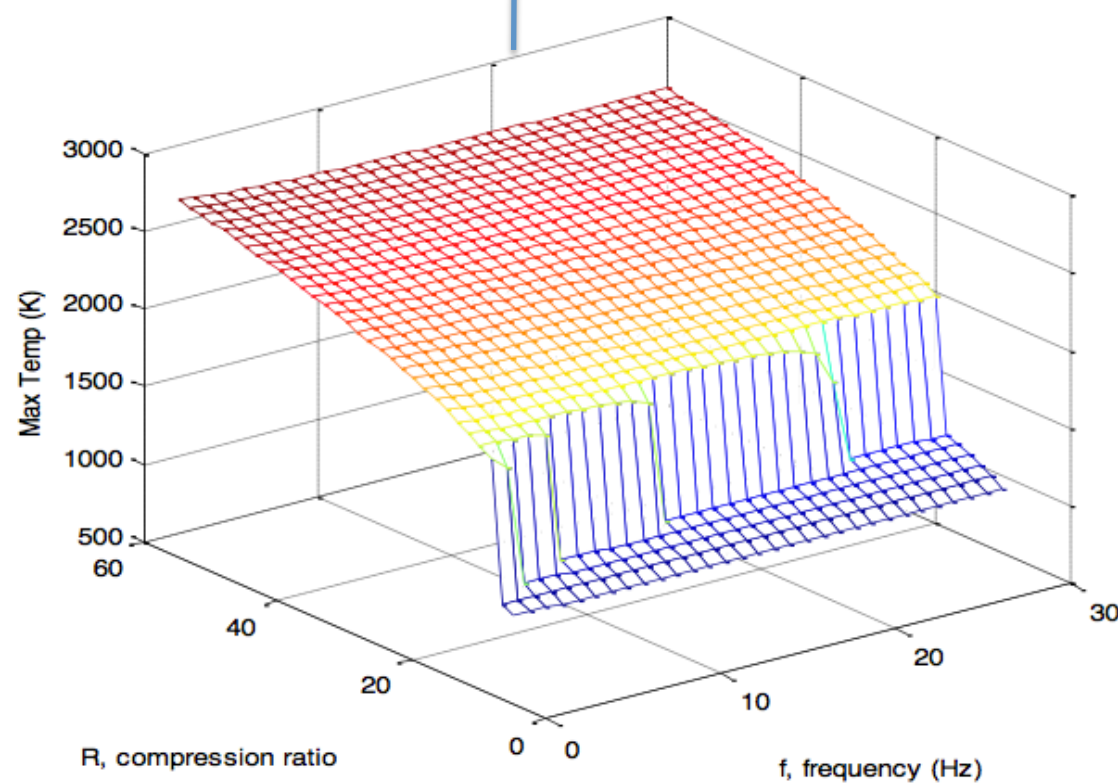
Slave

Slave

Slave

Slave

Slaves run HCCI reactor and send back key parameters:
Maximum Temperature
Has Ignition Occurred?



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