OOKAMI PROJECT APPLICATION

Date: 6/4/2021

Project Title: Fiscal Space with Defaultable Public Debt

Papers in progress:

• Deadly Debt Crises: COVID-19 in Emerging Markets

• Monetary Policy and Sovereign Risk in Emerging Economies (NK-Default)

Usage: Testbed

Principal Investigator: Gabriel Mihalache

• University: Stony Brook University

• Mailing address: SBS S633, Stony Brook, NY, 11794 USA

• Phone number: (585)-627-3848

• Email: gabriel.mihalache@stonybrook.edu

Names & Email of initial project users:

 $Gabriel\ Mihalache-gabriel.mihalache@stonybrook.edu$

Usage Description:

Hybrid OpenMP + MPI Fortran 2008 code for computation and simulation of large models of sovereign debt crises and their interactions with epidemiological dynamics ("Deadly Debt Crises..." project) or monetary policy ("NK-Default..." project).

Computational Resources:

- Estimate for the total node hours per year: $4 \times 8 \times 150 \approx 5000$
- Size (nodes) and duration (hours) for a typical batch job: 5-10 nodes for under 4-8 hours (on Seawulf)
- Disk space (home, project, scratch): under 10 GB on scratch, under 2 GB in home

Personnel Resources:

none

Required software:

recent Fortran compiler with MPI and OpenMP support

If your research is supported by US federal agencies:

- Agency: not at this time
- Grant number(s):

Production projects: not at this time