# This document describes the Bios settings for the SETI Nodes at HCRO

## Intro:

Settings are based on the current configuration of SETI-node4 and the GPU server setup from COSMIC. : <https://github.com/COSMIC-SETI/FrontPage/blob/master/Nodes/GPU-Compute/Setup.md>

## **Adjust BIOS for HPC:**

Boot Setup:

A computer screen with text and images

Description automatically generated

Boot Feature:

A screenshot of a computer

Description automatically generated

CPU Configuration:

* SMT = disabled [CPU Configuration]
* SVM Mode = disabled [CPU Configuration]
* Local APIC mode = x2APIC [CPU Configuration]

A screenshot of a computer

Description automatically generated

NB Configuration:

* APBDIS = 1 [NB Configuration]
* Fixed SOC Pstate = P0 [NB Configuration]
* IOMMU = disabled [NB Configuration]
* DF Cstates = disabled [NB Configuration]

A screenshot of a computer

Description automatically generated

ACPI Configuration:

* NUMA nodes per socket = NPS1 [ACPI Settings]
* L3 cache as NUMA = disabled [ACPI Settings]

A screenshot of a computer

Description automatically generated

PCIe Configuration:

* PCIe Relaxed Ordering = enabled [PCIe/PCI/PnP Configuration]

A screenshot of a computer

Description automatically generated