

# **AutoNUMA22 vs sched-numa rewrite**

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# Objective

- Run the autonuma-benchmark to compare:
  - AutoNUMA22 (3.6-rc1 based)
  - sched-numa rewrite (Message-Id 20120731191204.540691987 applied on 3.6-rc1)
  - Upstream 3.6-rc1 0d7614f
- Run on 2 nodes with HT enabled
- Run on 8 nodes with HT enabled
  - Work in progress (pdf will be updated)



# autonuma-benchmark

```
$ git clone git://gitorious.org/autonuma-benchmark/autonuma-benchmark.git
```

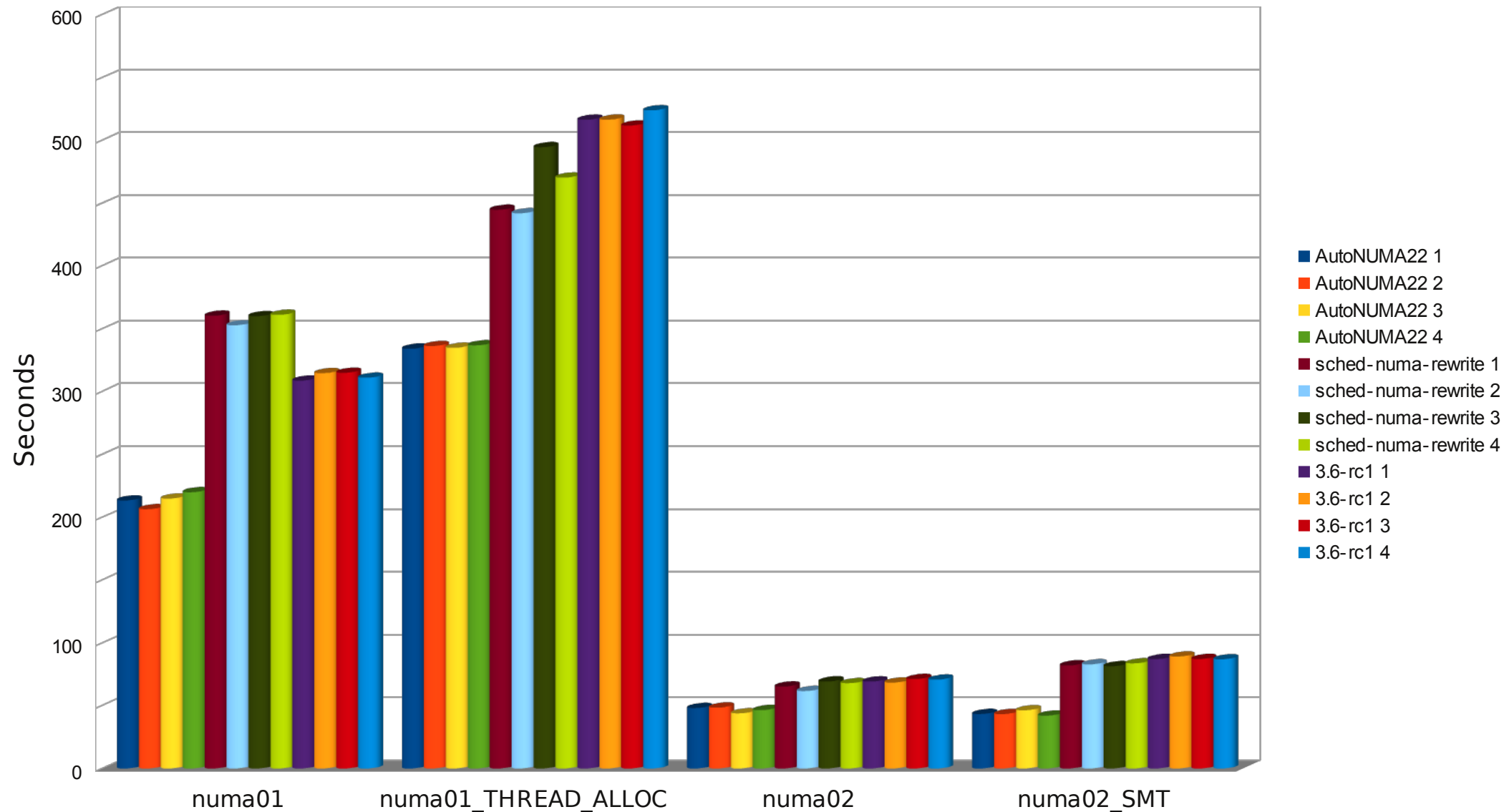
```
$ cd autonuma-benchmark
```

```
$ sudo ./start_bench.sh -s -t
```



# All results 2 nodes

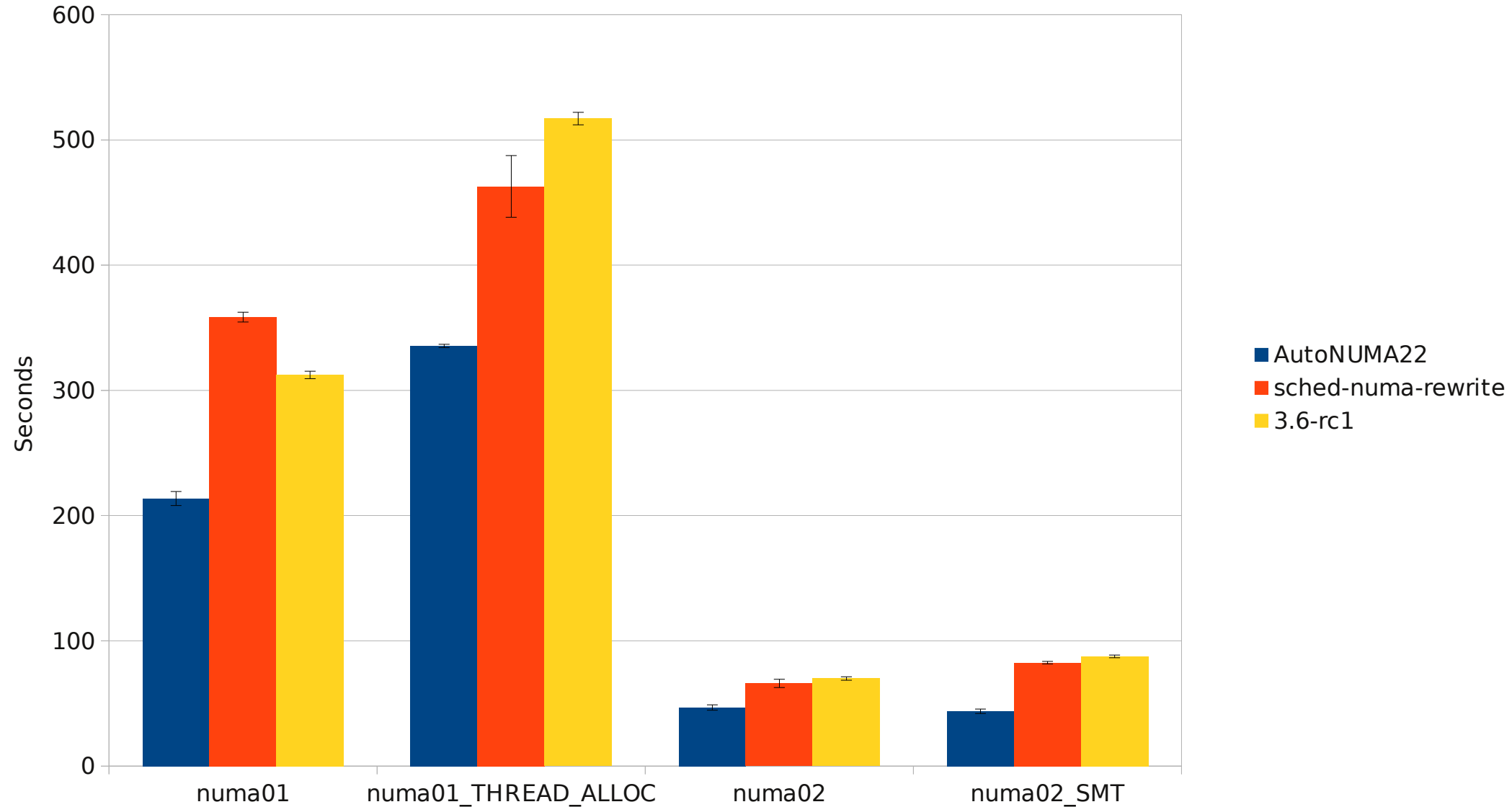
Lower is better



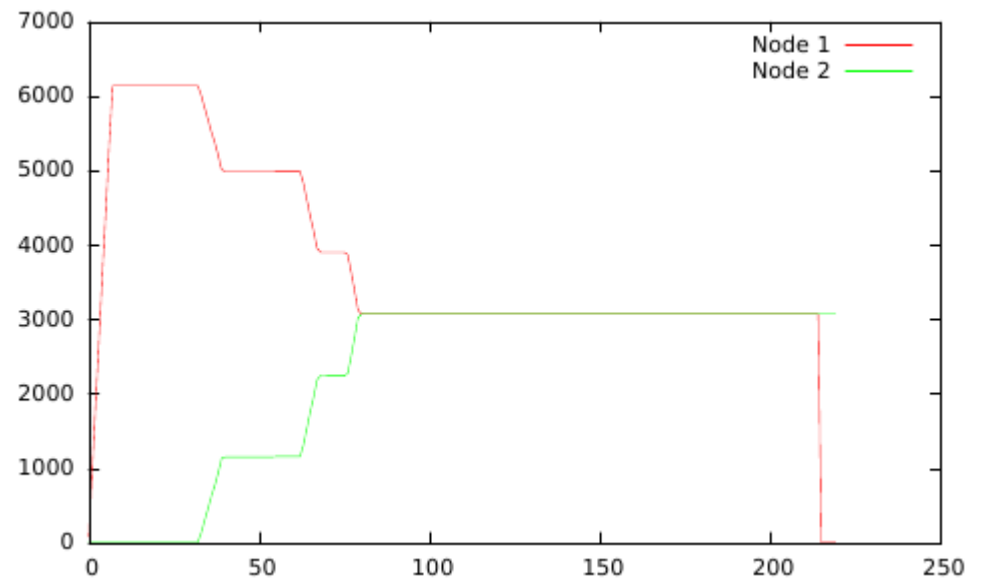
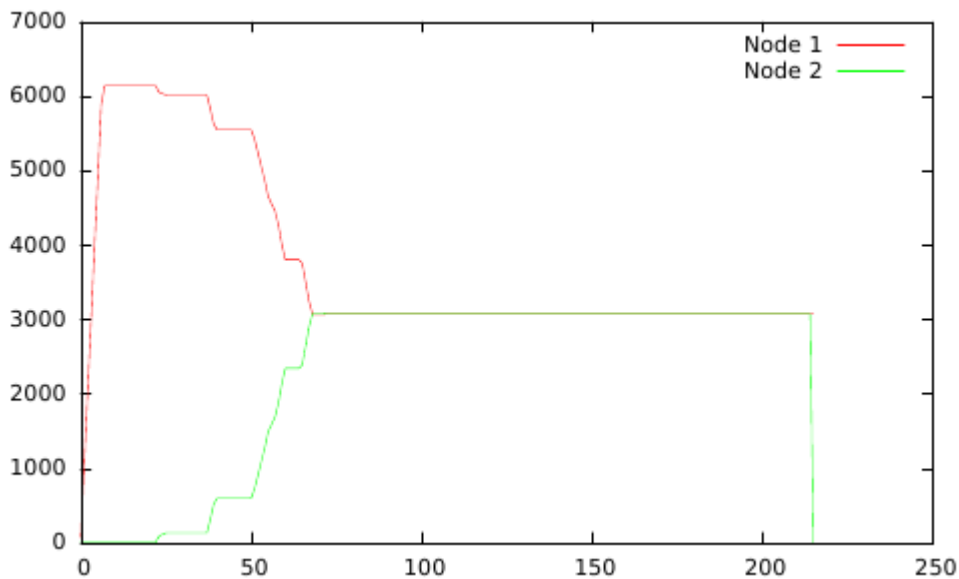
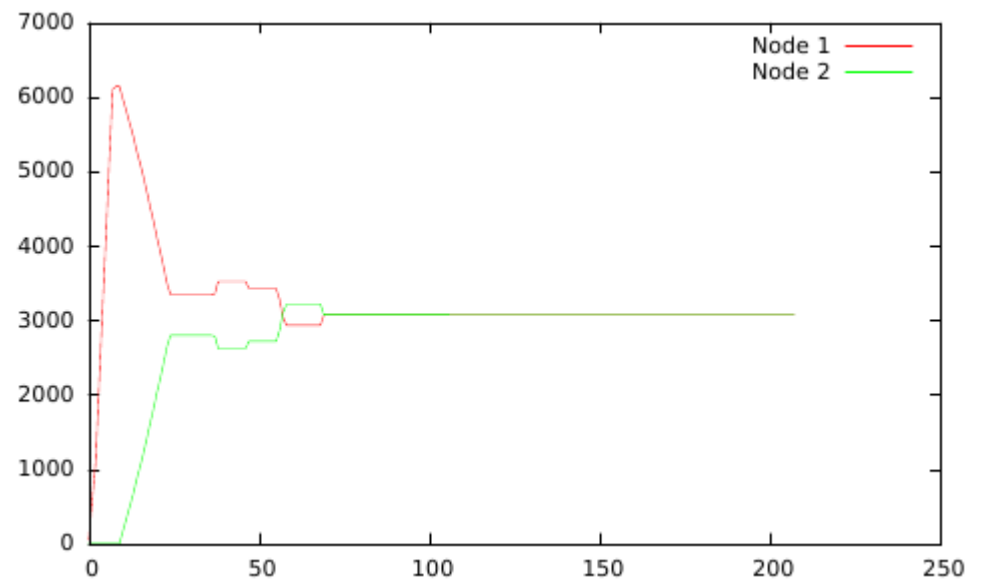
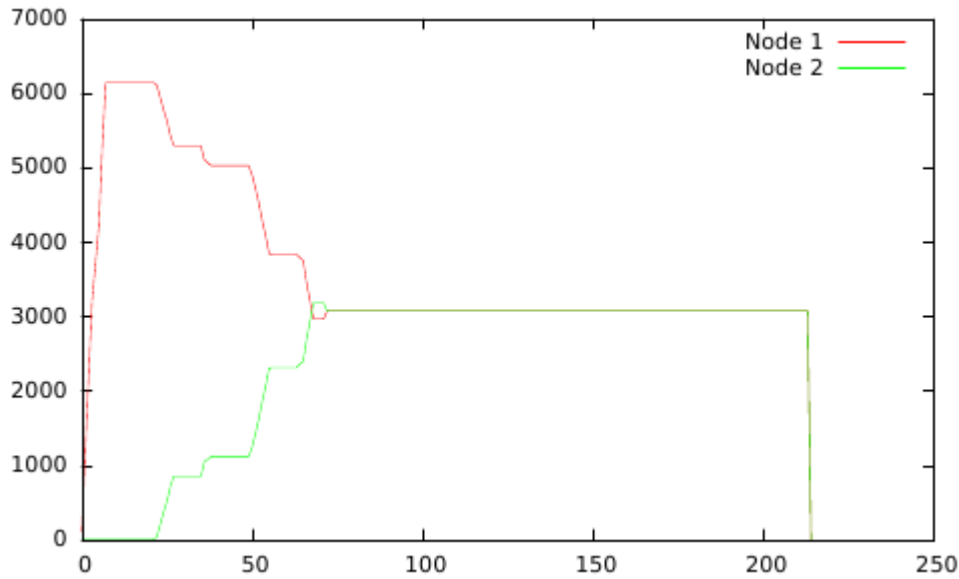
redhat.

# Avg and stdev results 2 nodes

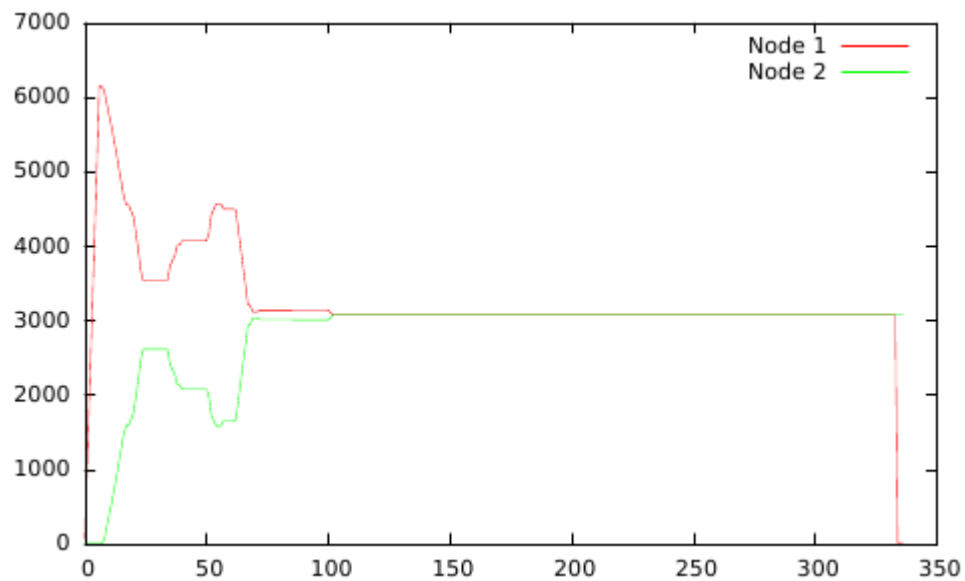
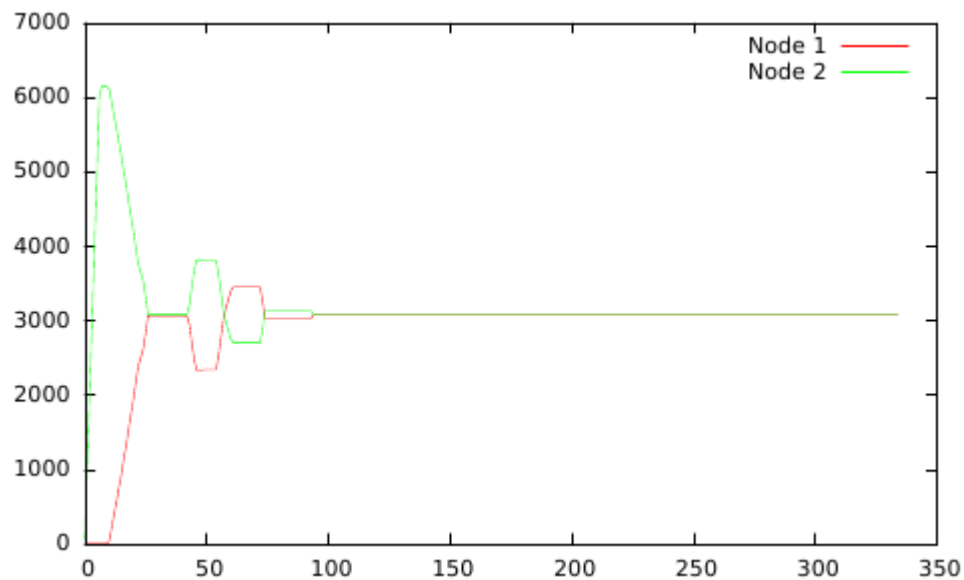
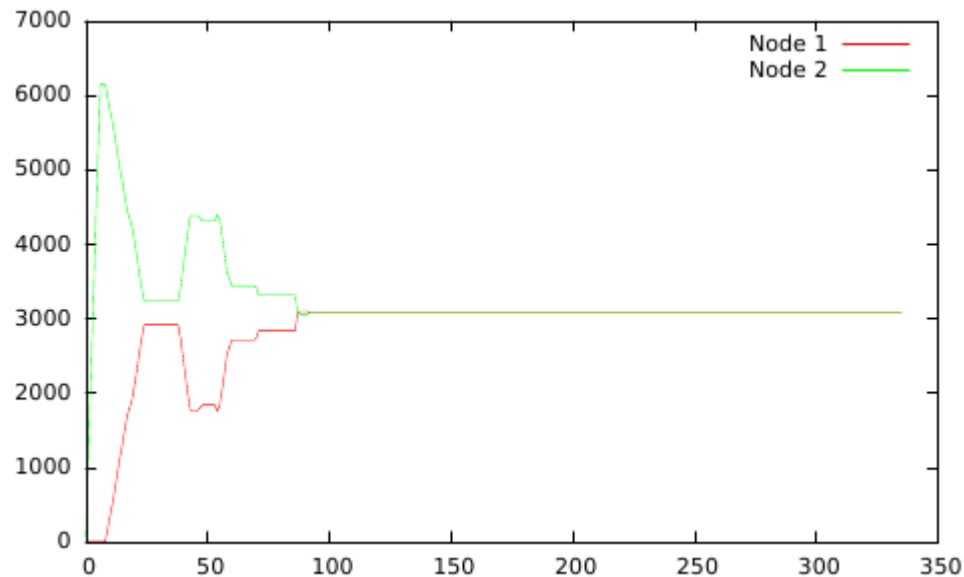
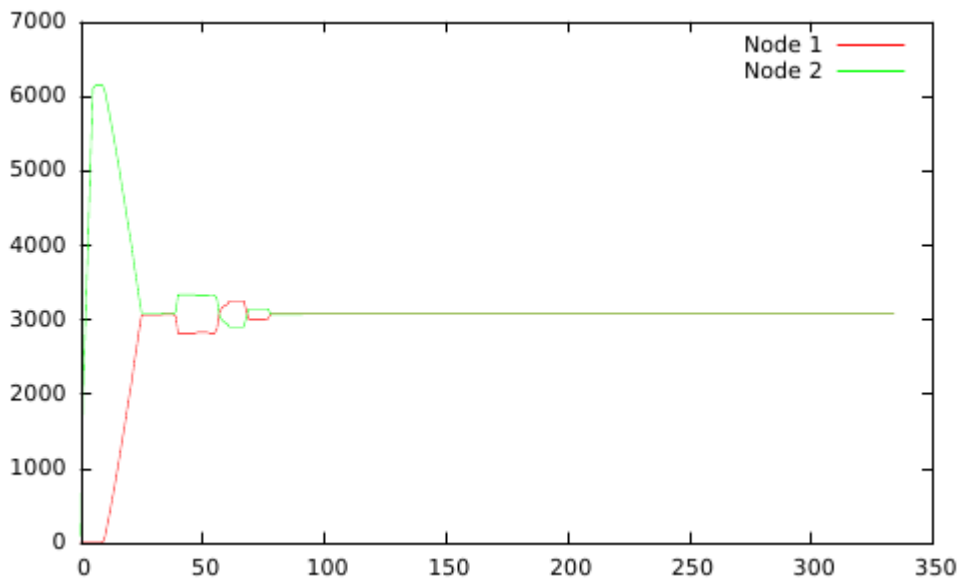
Lower is better



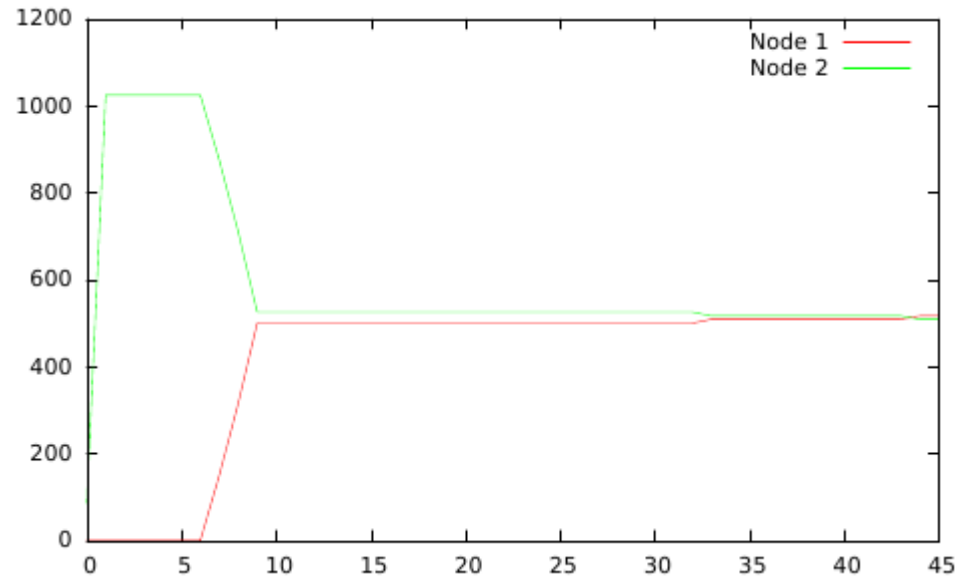
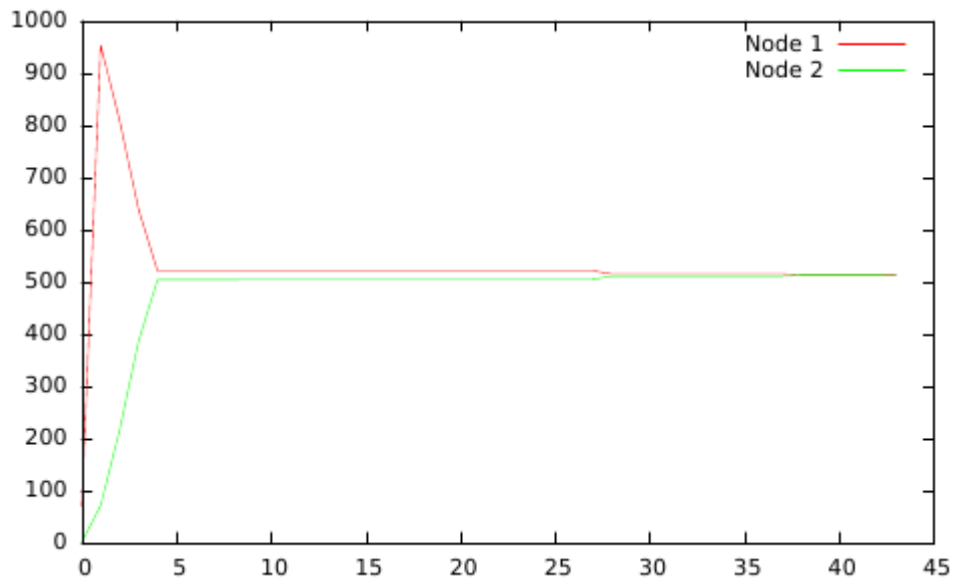
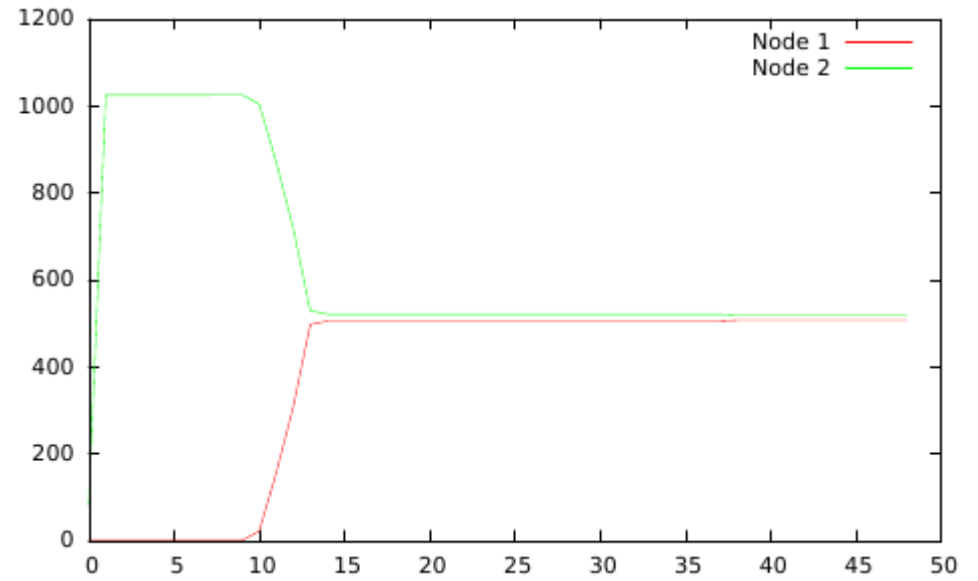
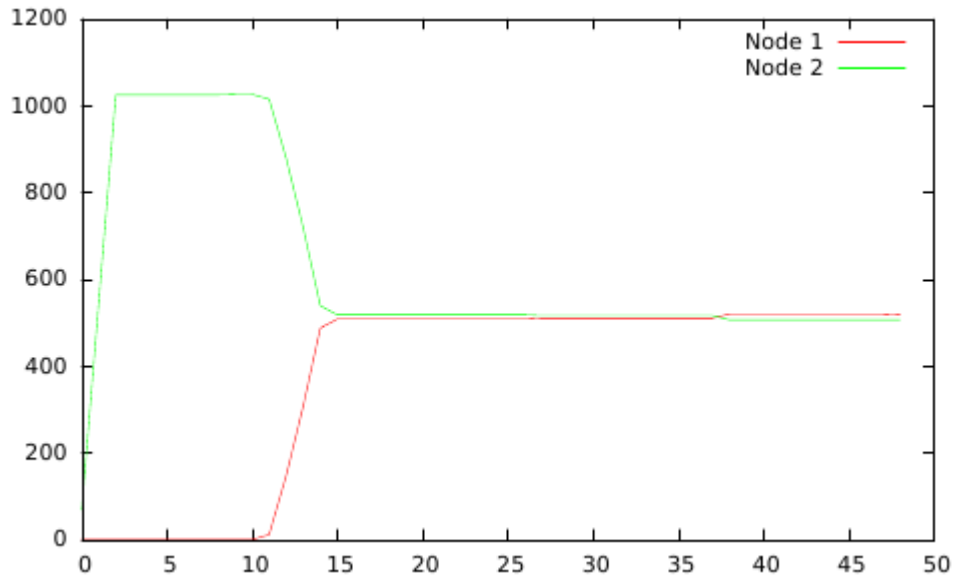
# AutoNUMA22 numa01



# AutoNUMA22 numa01\_THREAD..

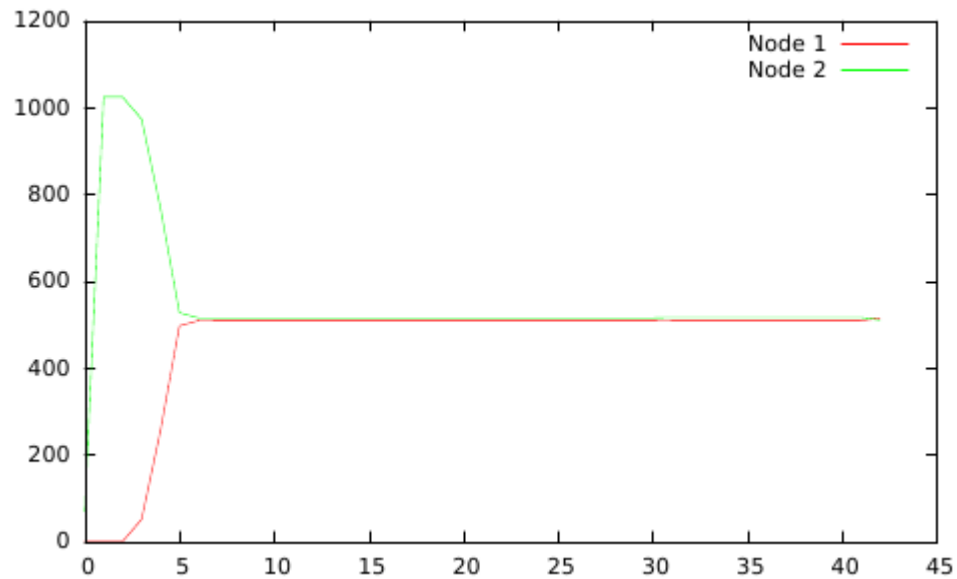
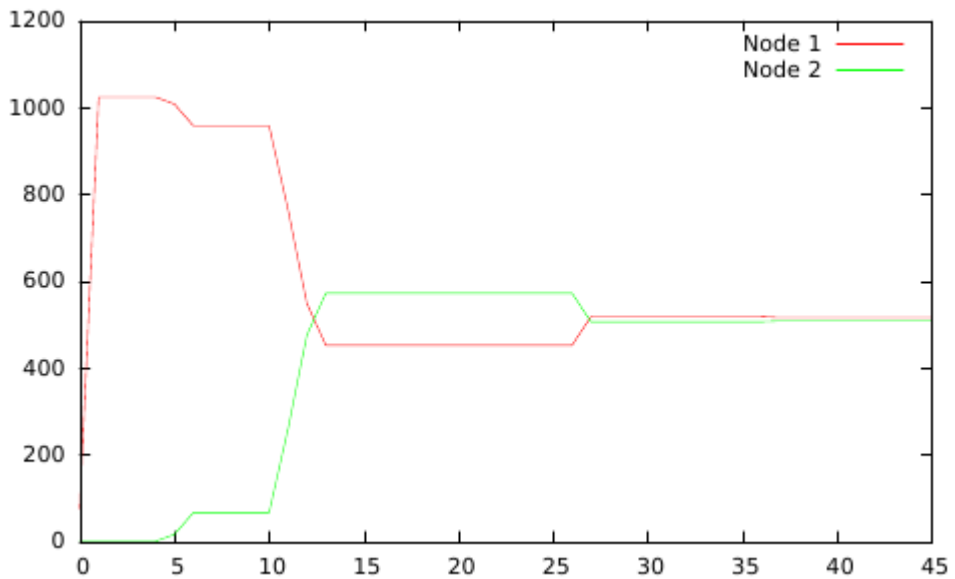
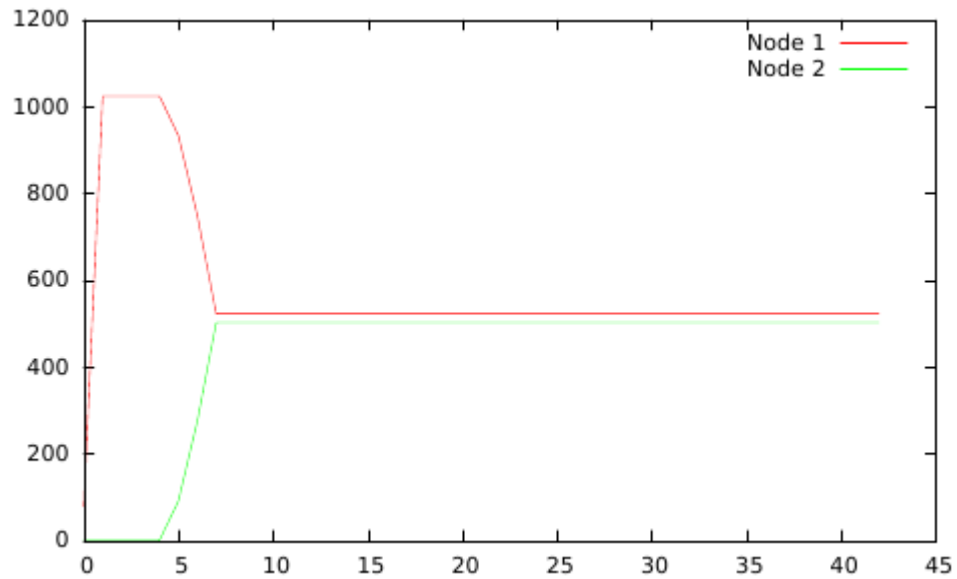
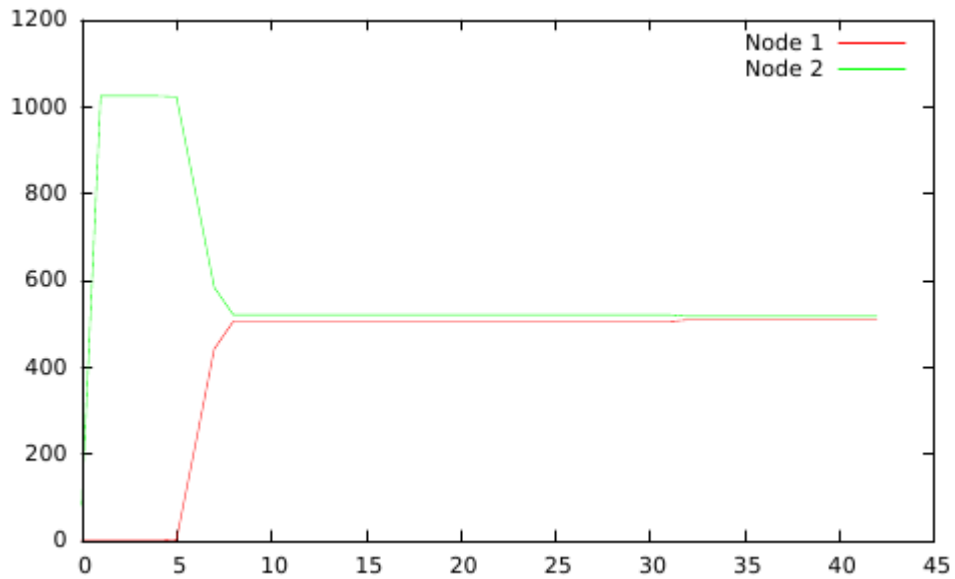


# AutoNUMA22 numa02

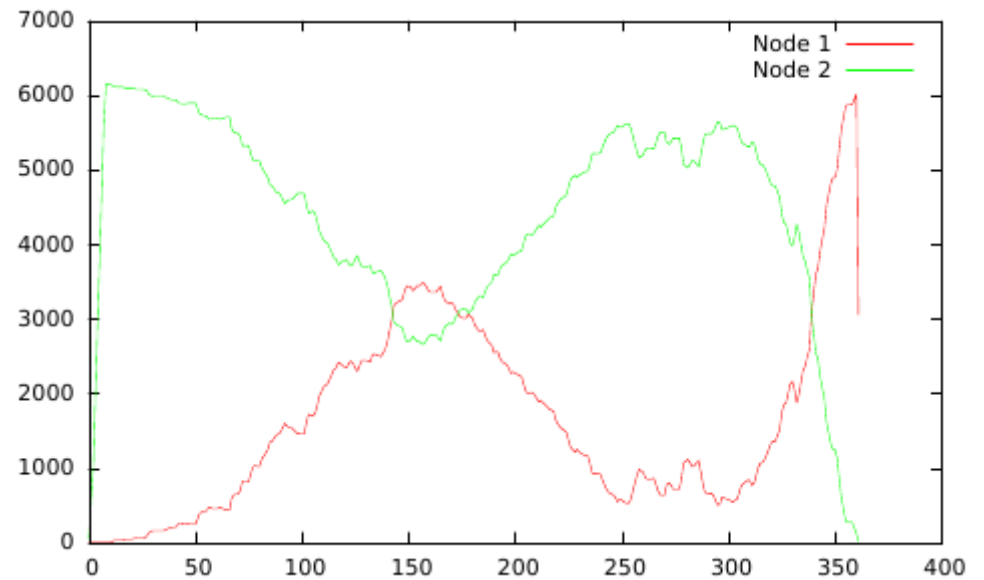
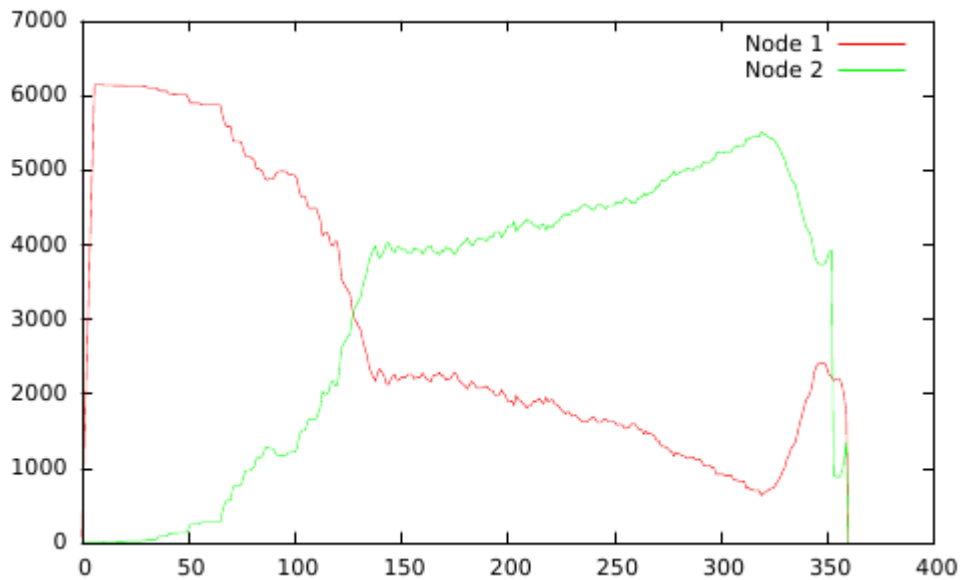
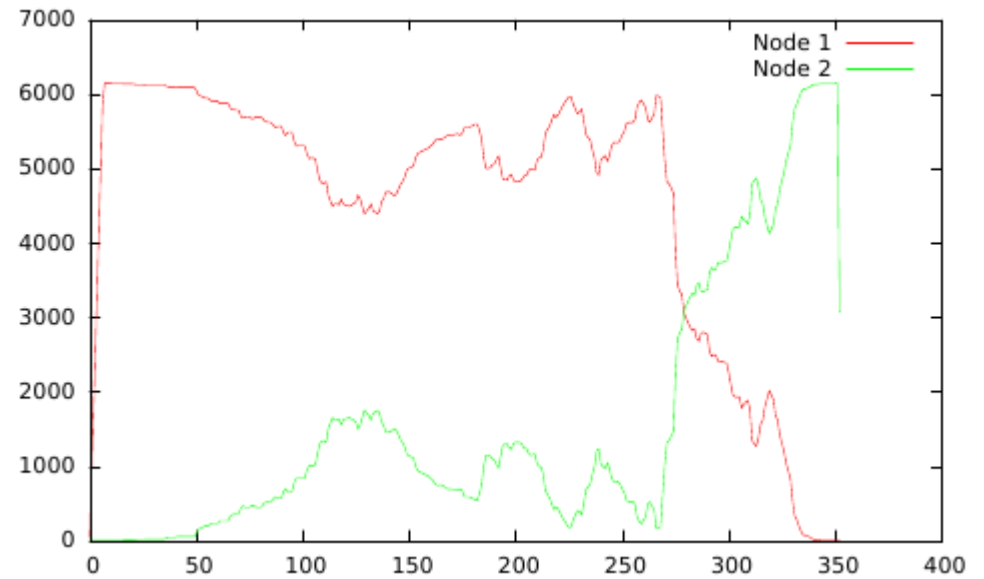
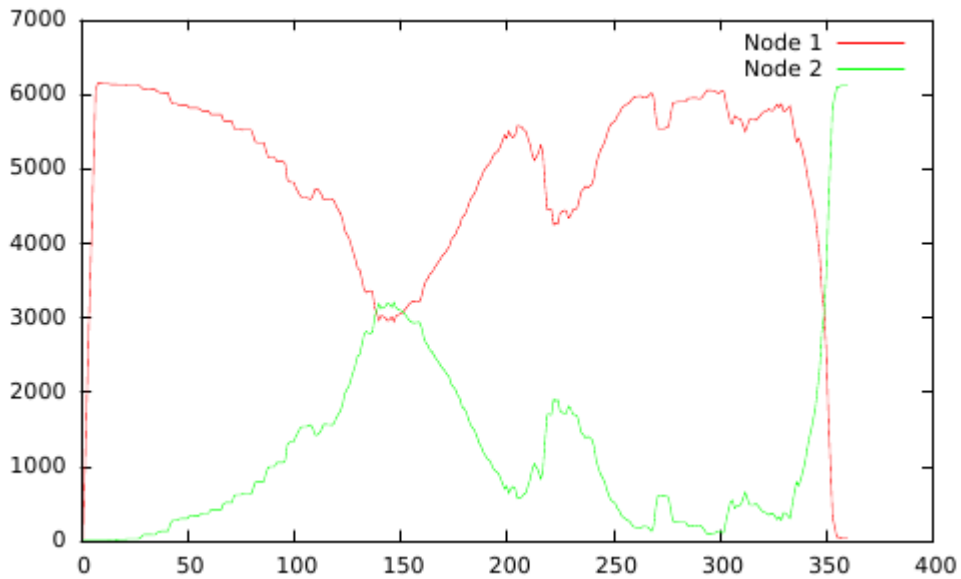




# AutoNUMA22 numa02\_SMT



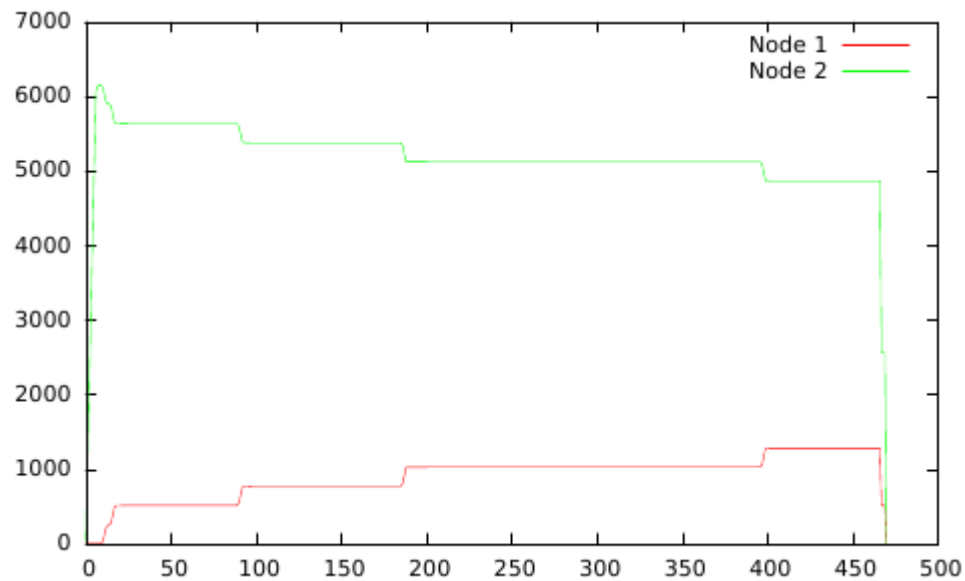
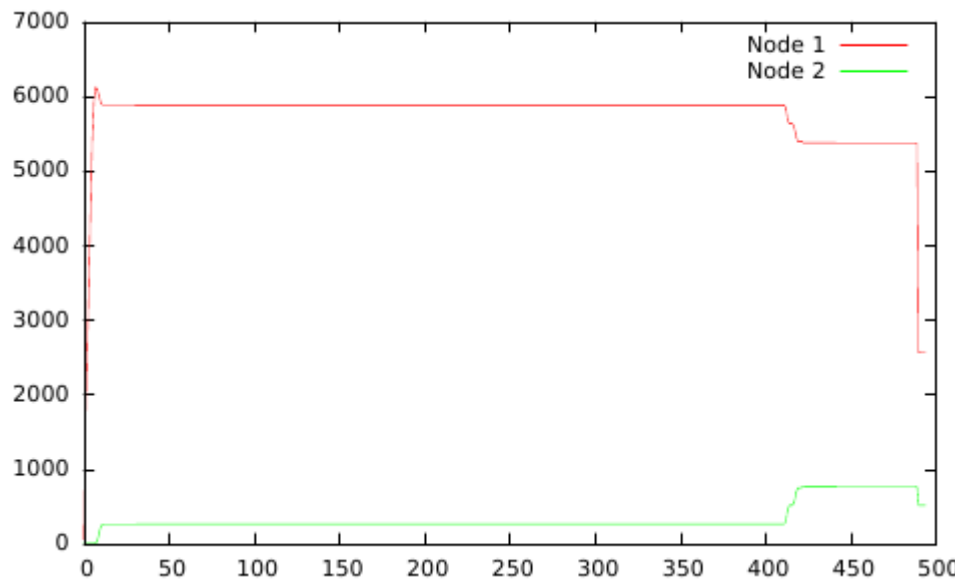
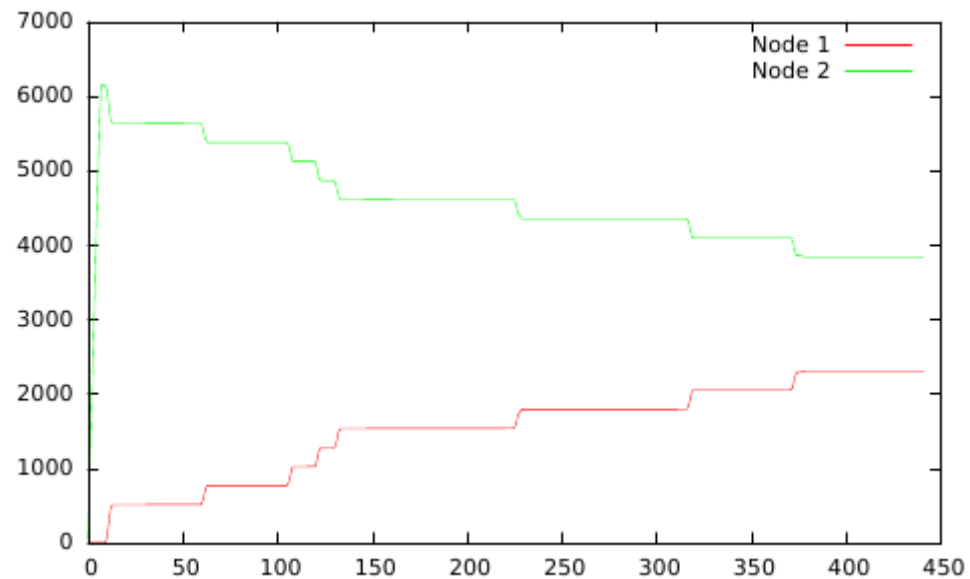
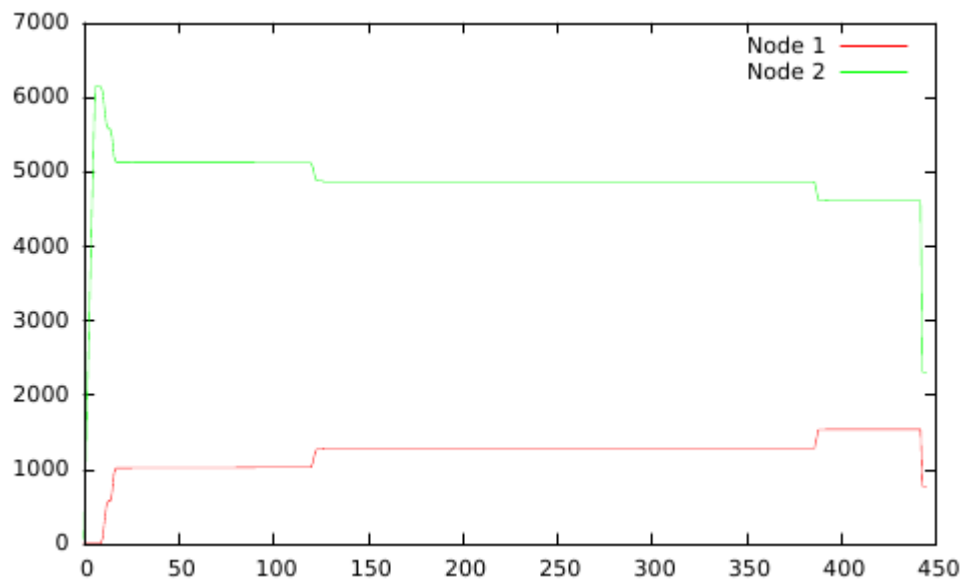
# sched-numa-rewrite numa01



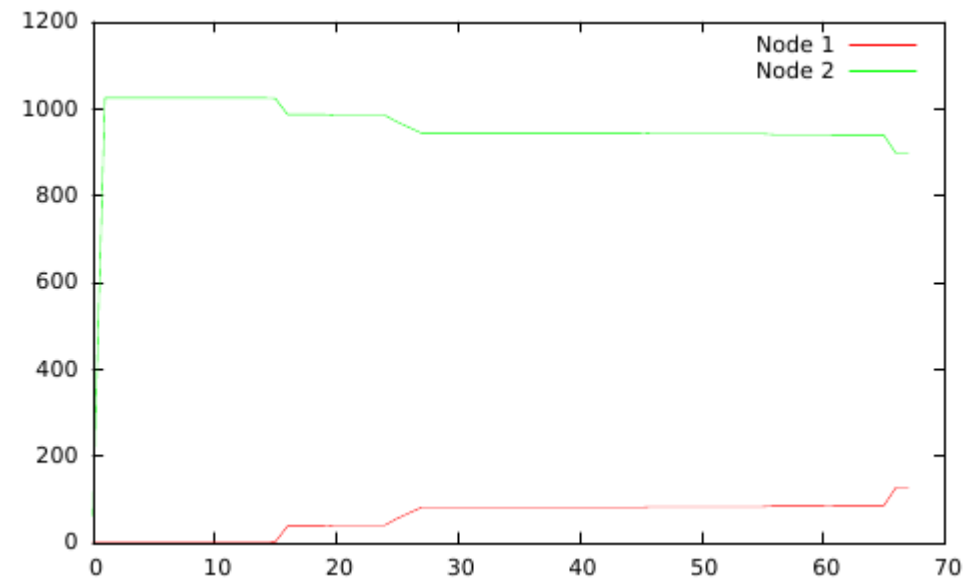
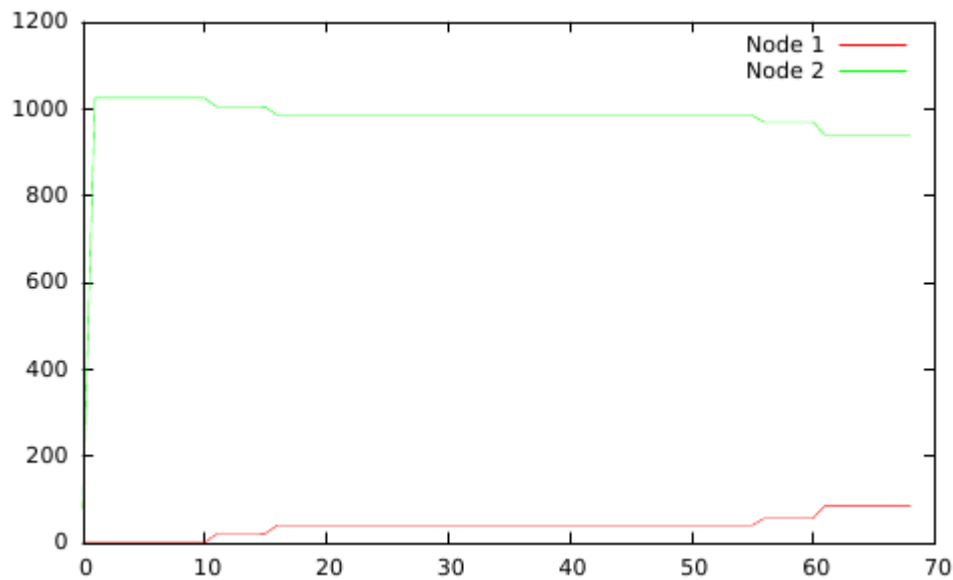
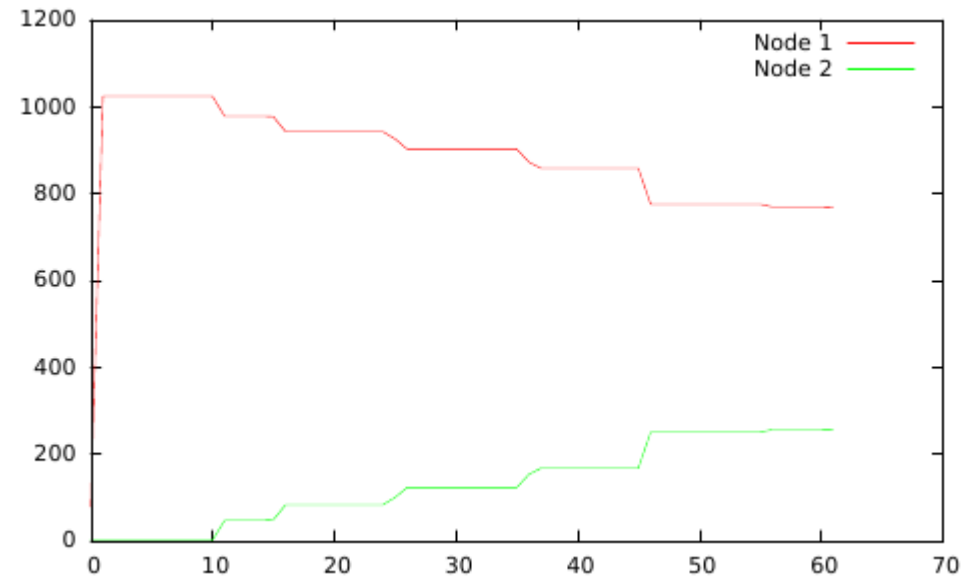
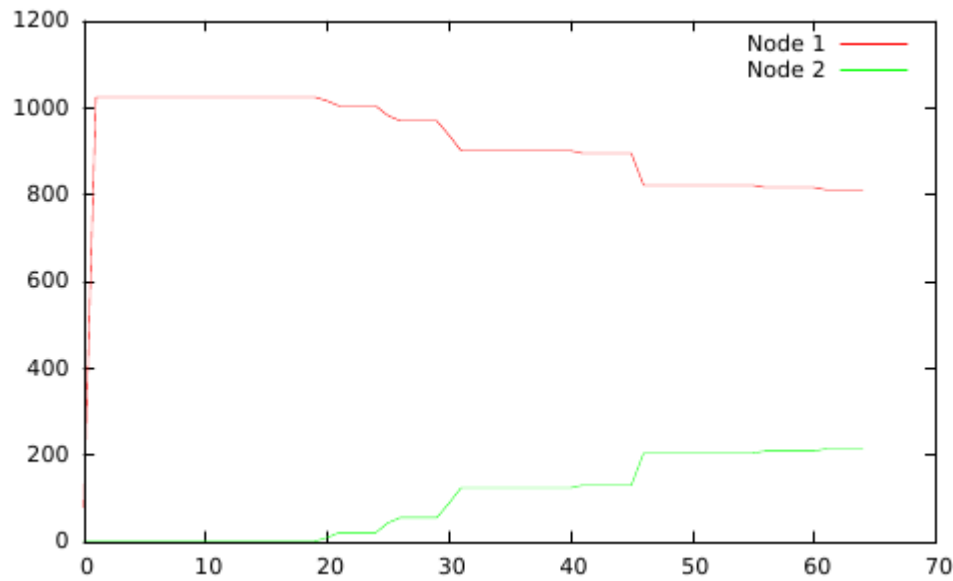
2 nodes



# sched-numa-rewrite numa01\_TH..



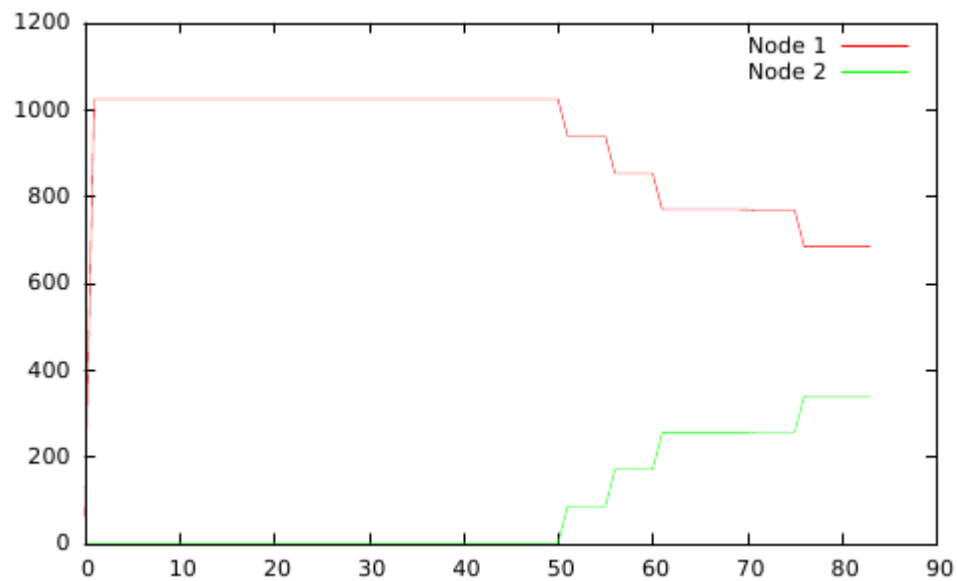
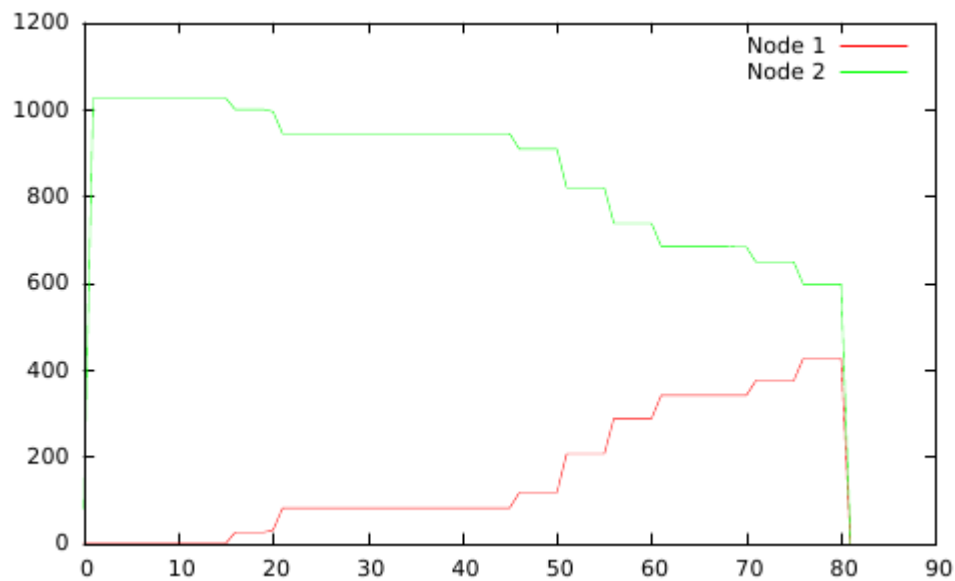
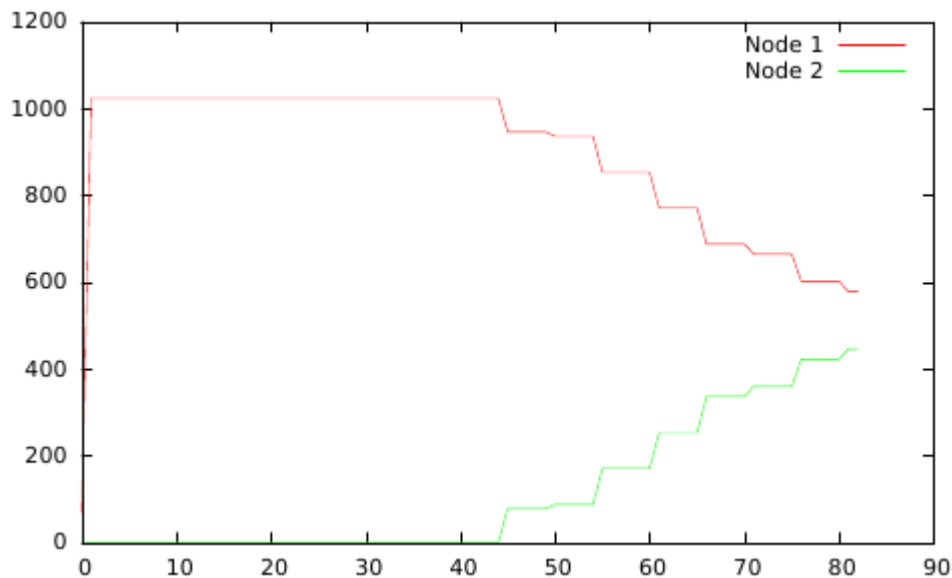
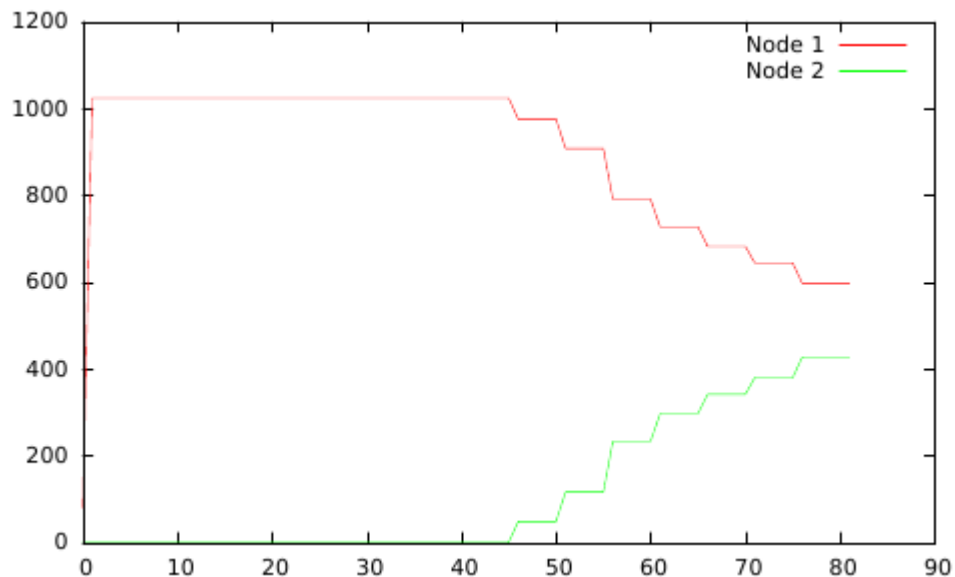
# sched-numa-rewrite numa02



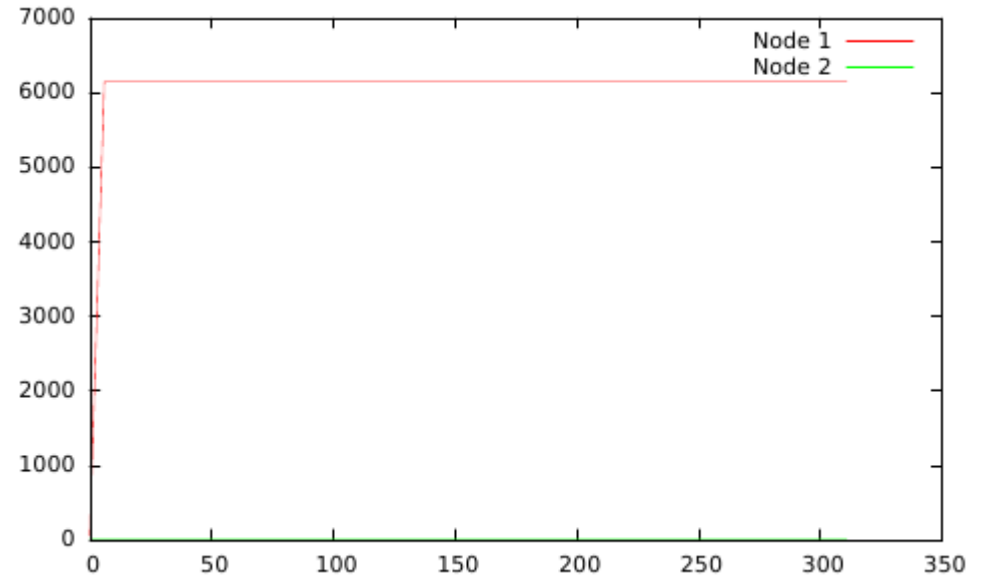
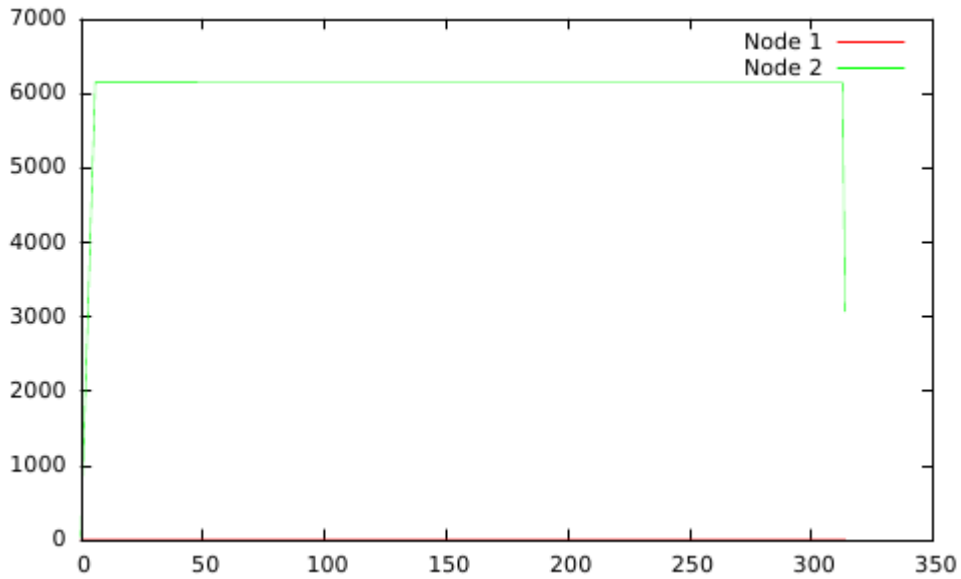
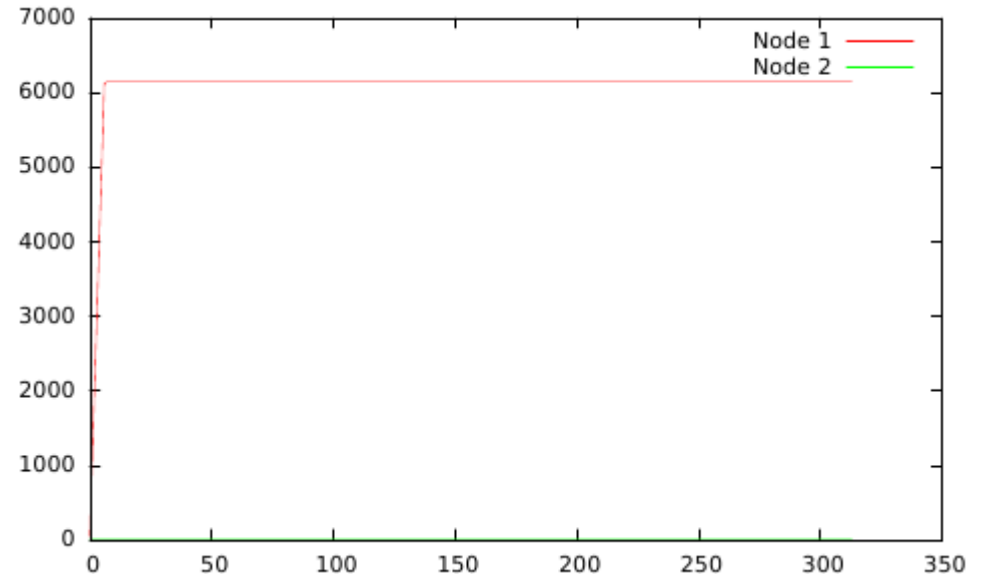
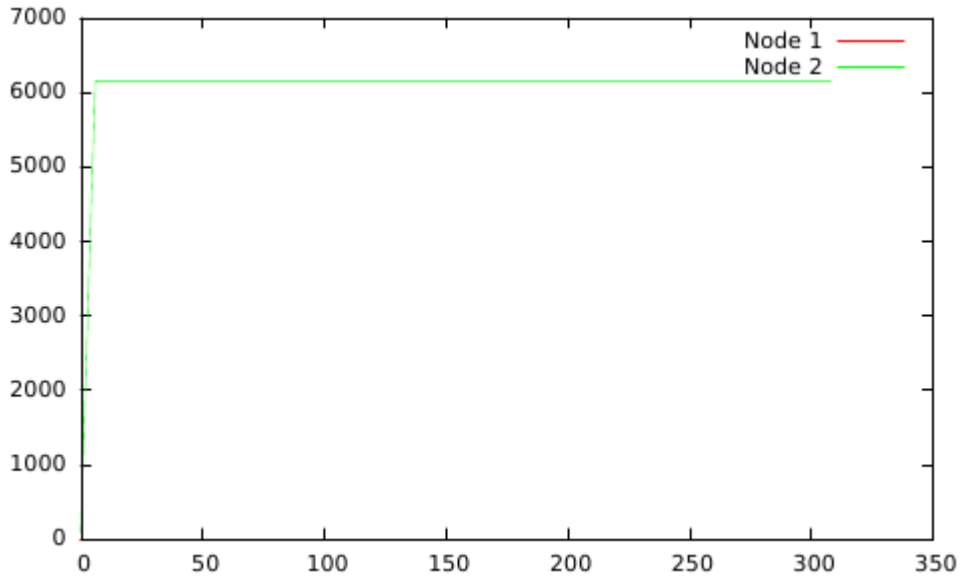
2 nodes



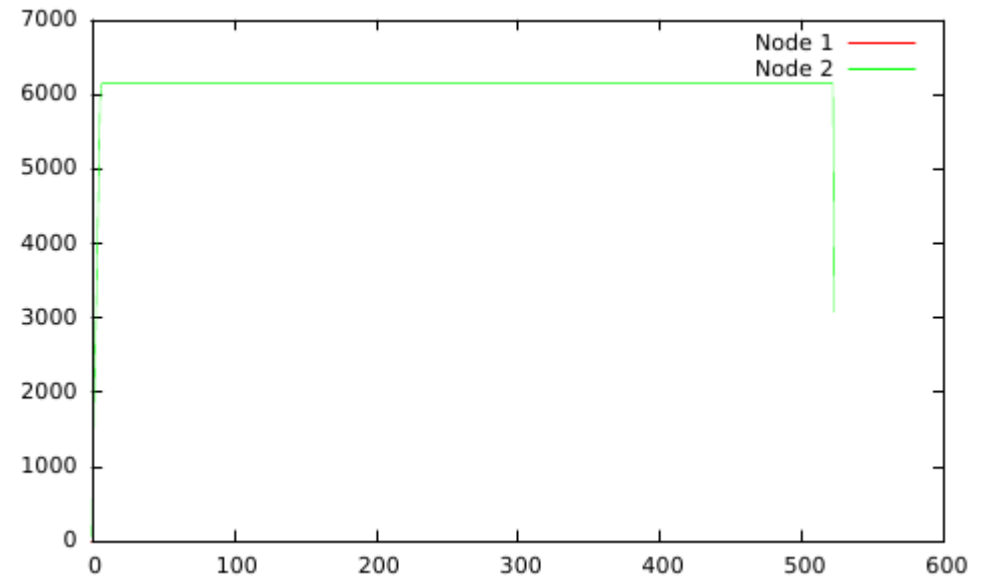
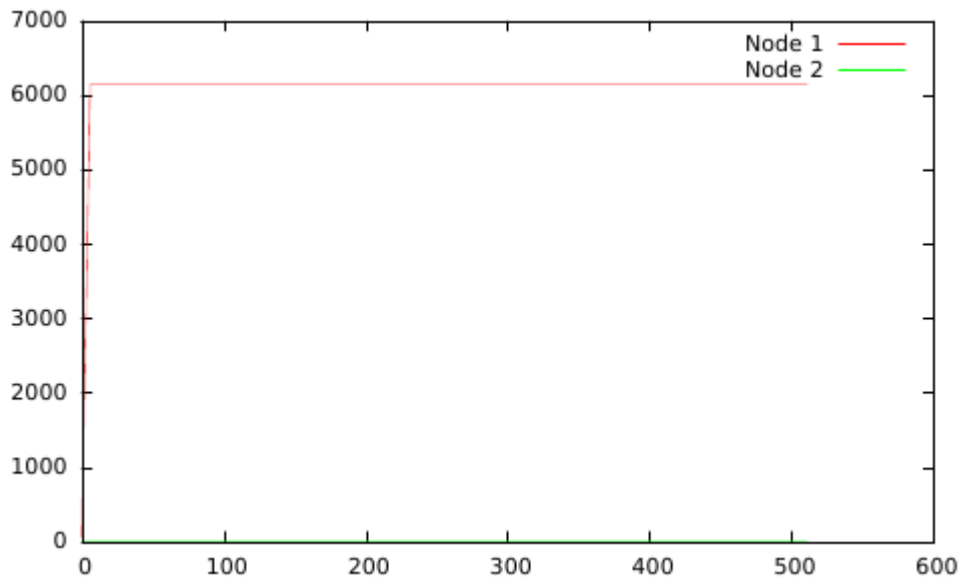
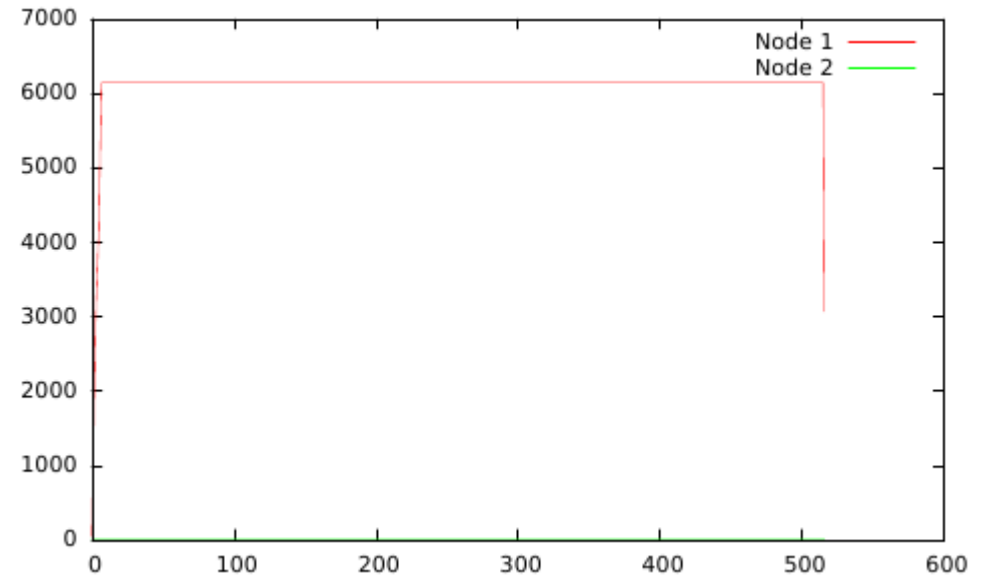
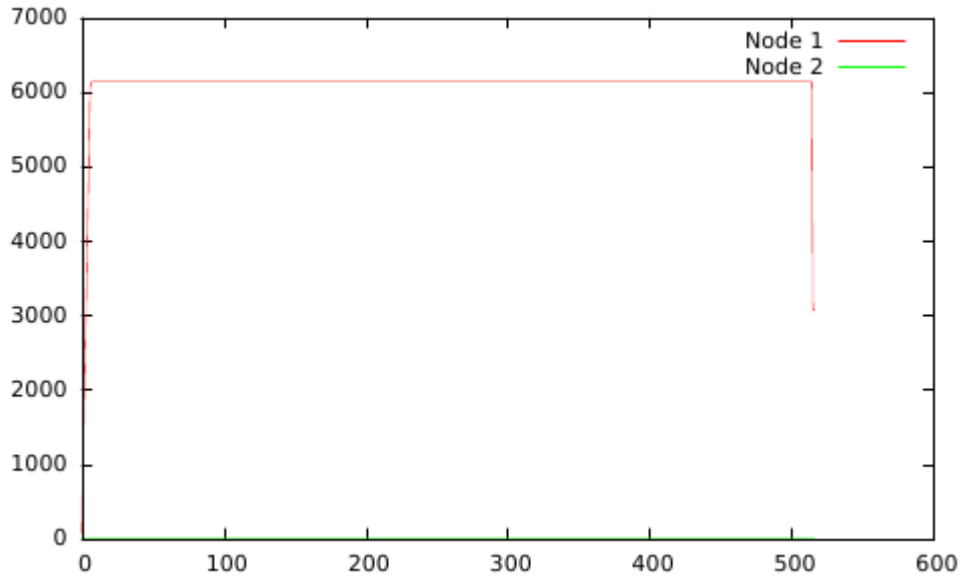
# sched-numa-rewrite numa02\_SMT



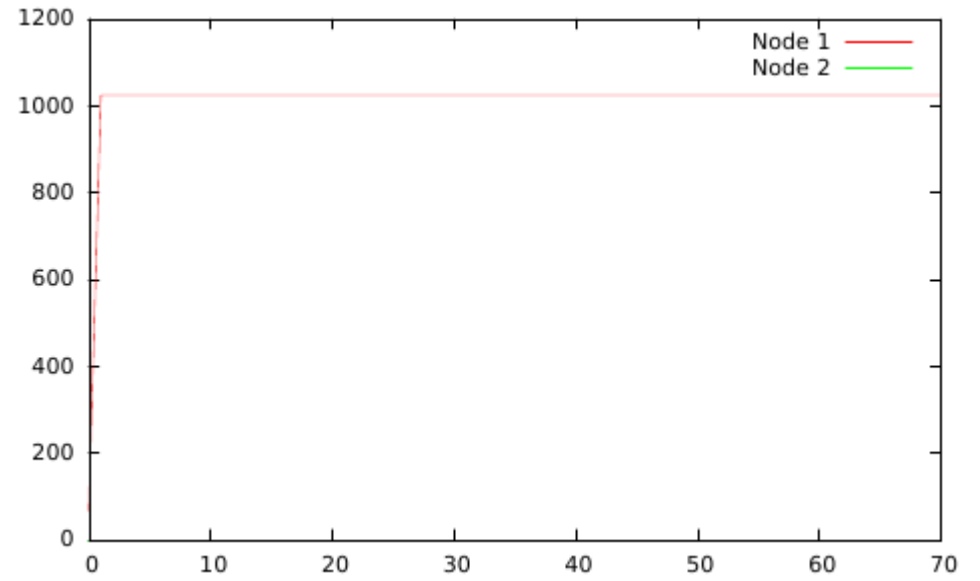
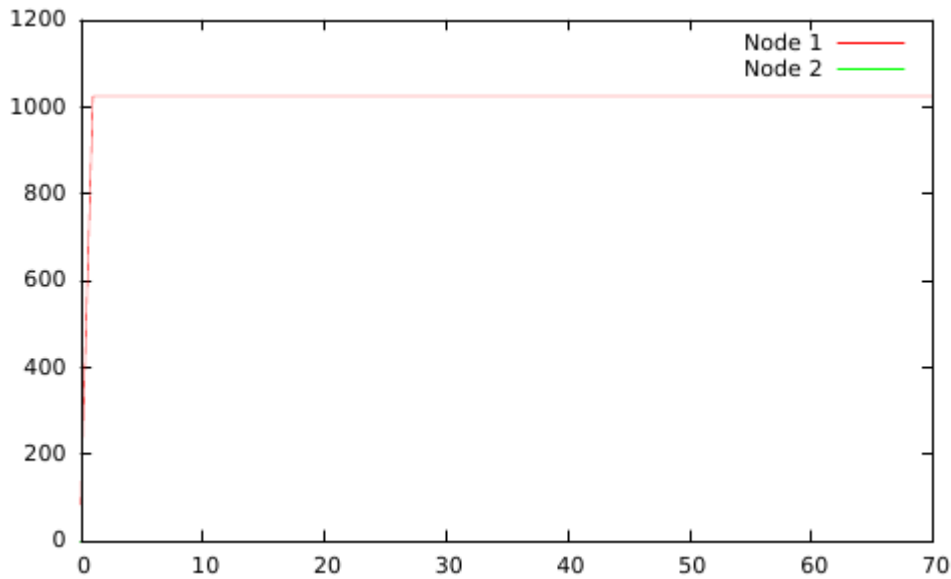
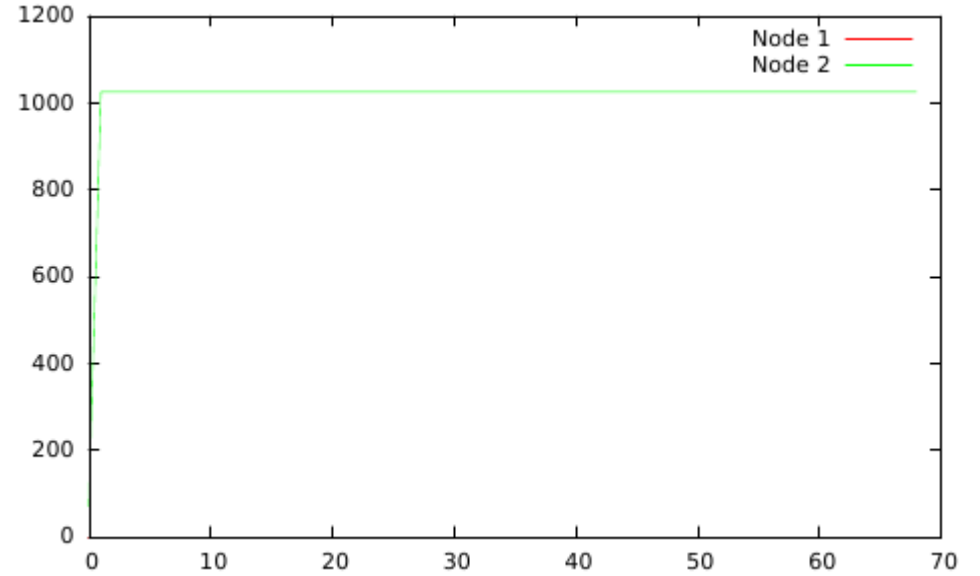
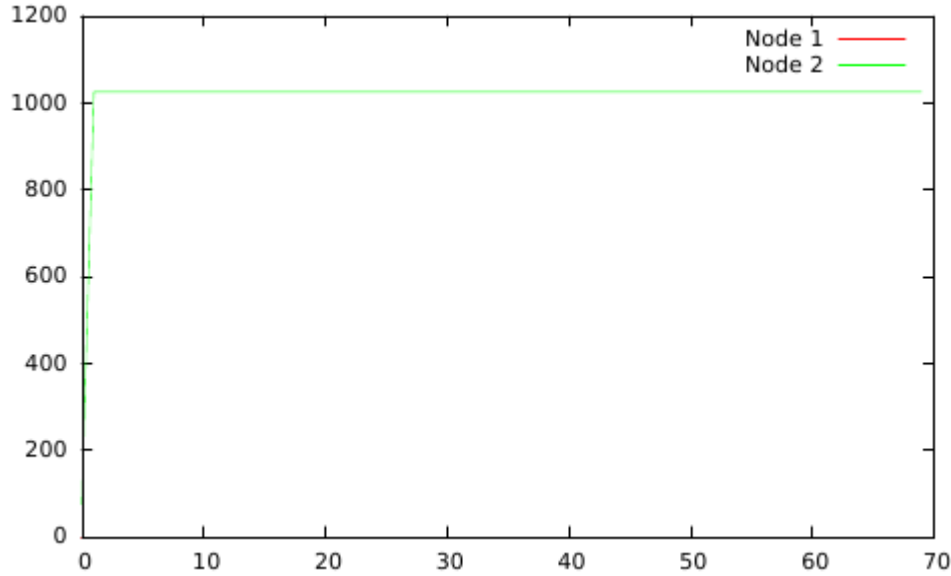
# 3.6-rc1 numa01



# 3.6-rc1 numa01\_THREAD\_ALLOC

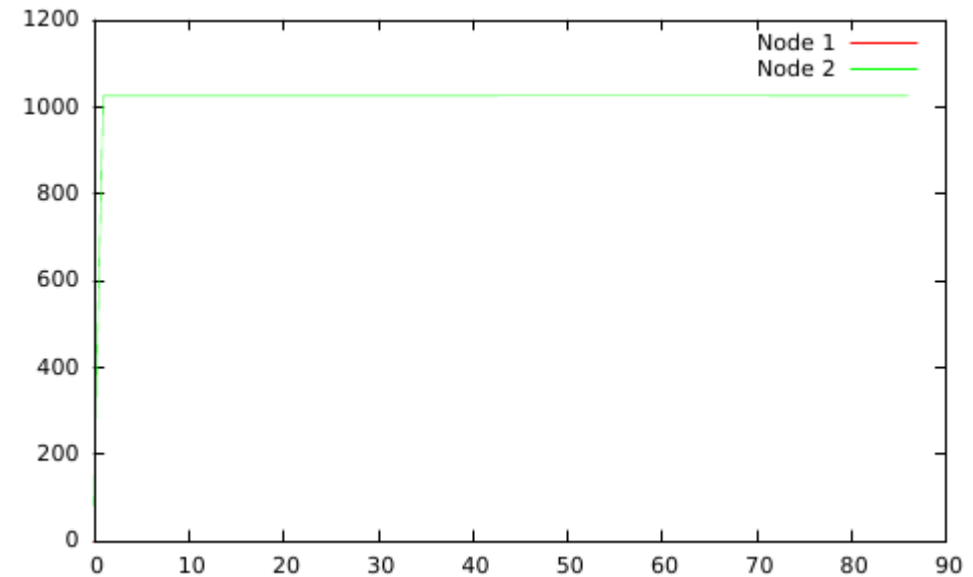
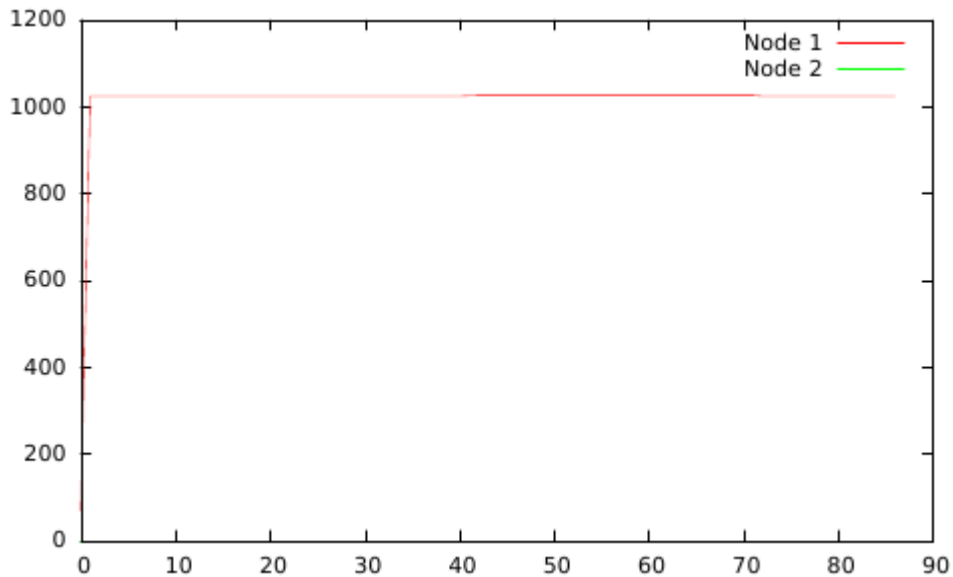
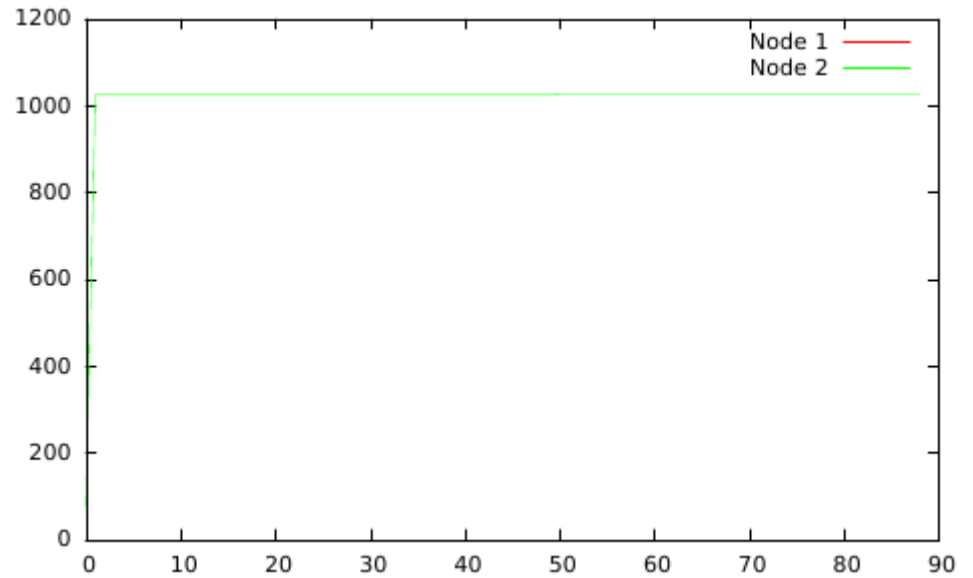
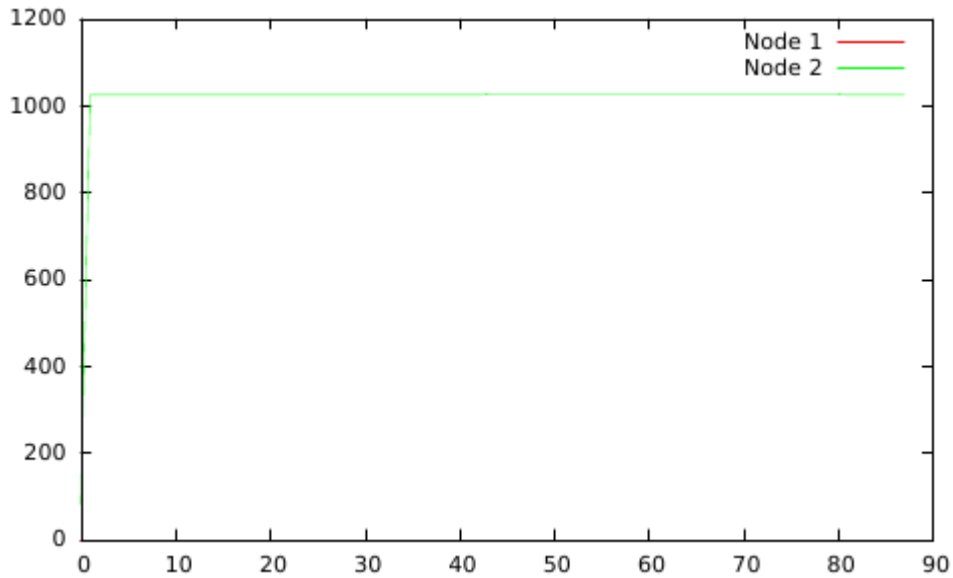


# 3.6-rc1 numa02

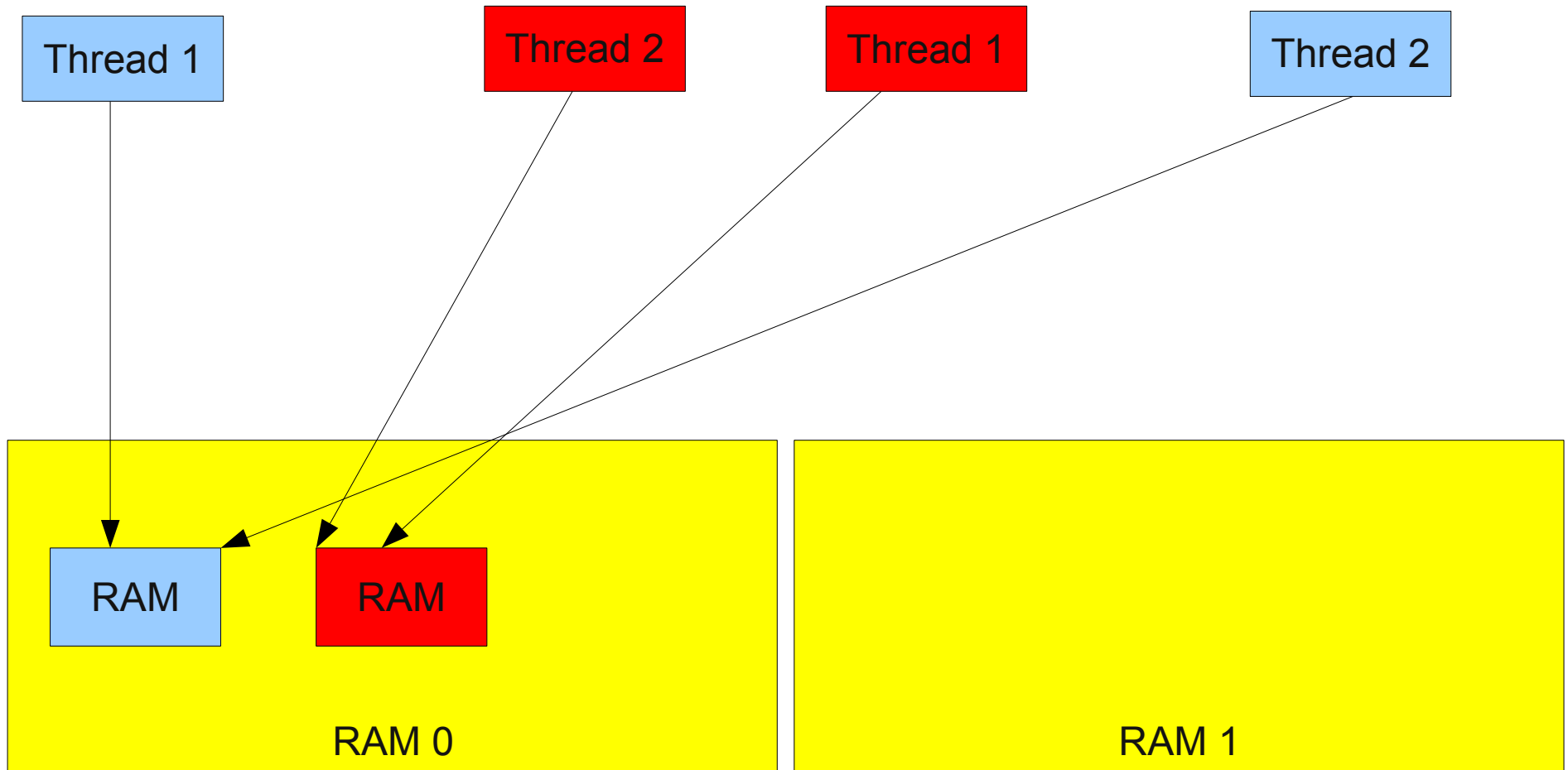




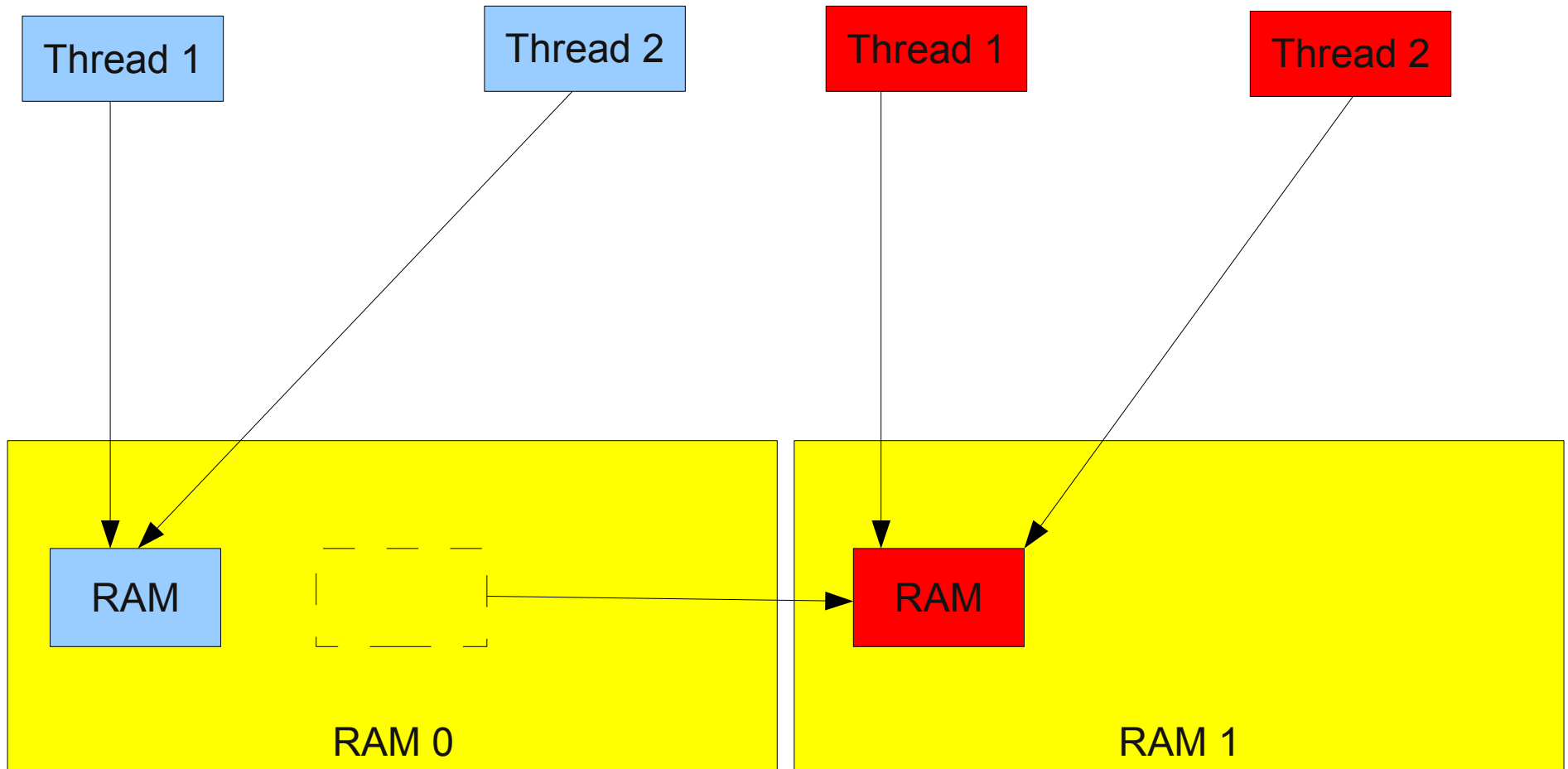
# 3.6-rc1 numa02\_SMT



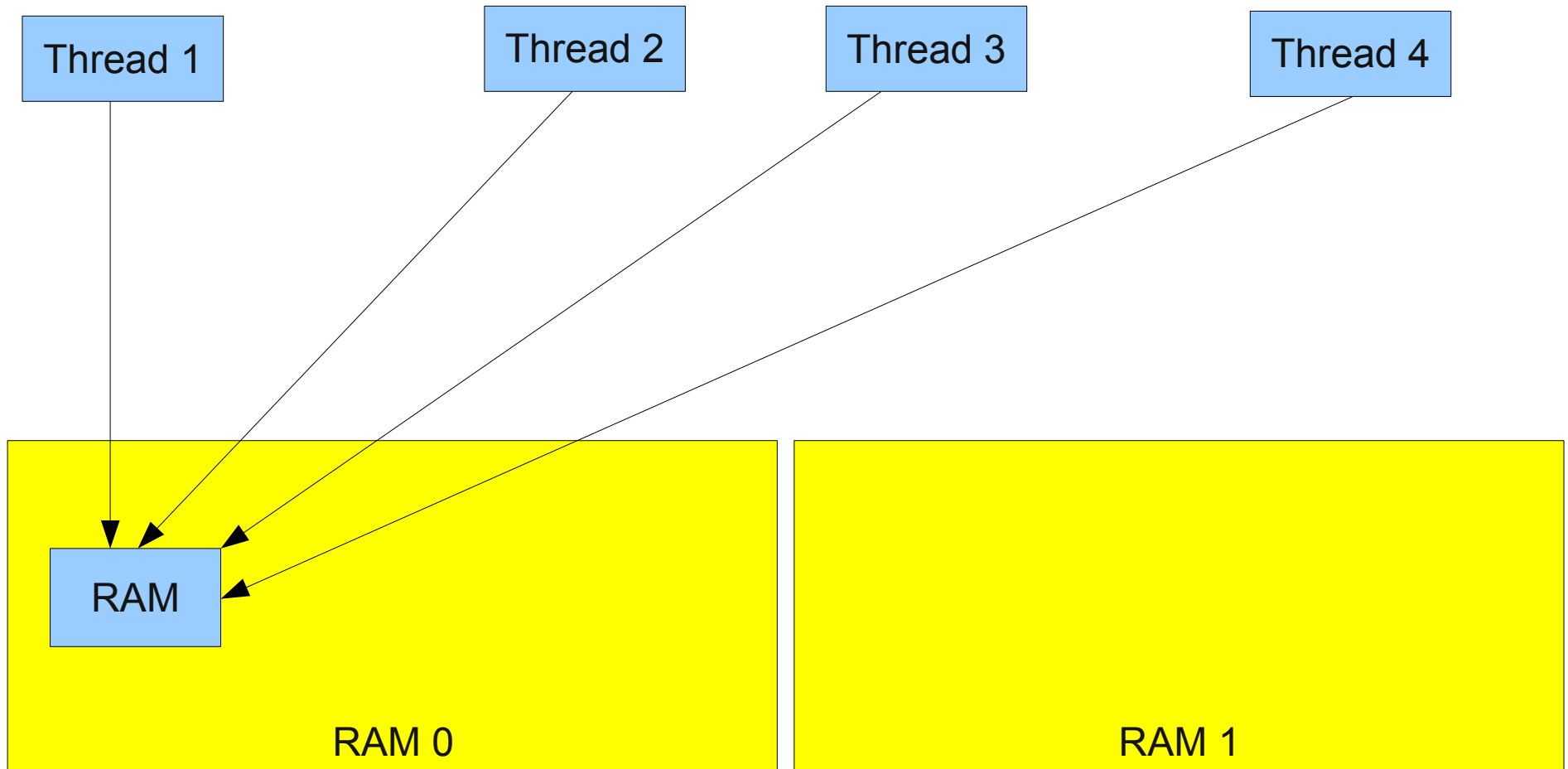
# numa01



# numa01



# numa02



# numa02

