| jobid: 397950 | uid: 59902 | nprocs: 16384 | runtime: 5820 seconds |
|---|---|---|---|

### Average I/O cost per process



### I/O Operation Counts



### I/O Sizes



### I/O Pattern
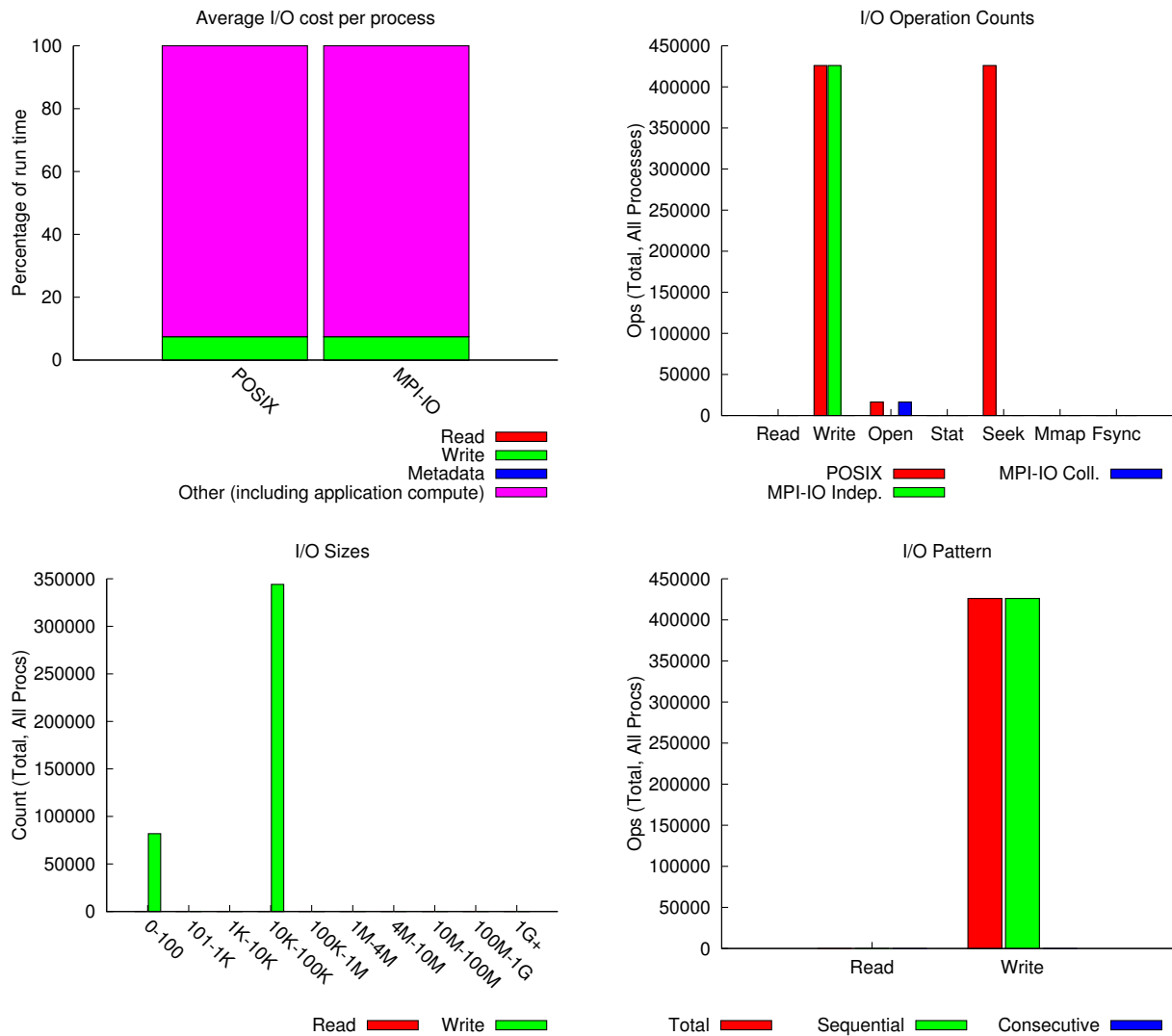


## Most Common Access Sizes

| access size | count |
|---|---|
| 12288 | 360448 |
| 68 | 32770 |
| 52 | 16384 |
| 24 | 16383 |

## File Count Summary
(estimated by I/O access offsets)

| type | number of files | avg. size | max size |
|---|---|---|---|
| total opened | 1 | 4.0G | 4.0G |
| read-only files | 0 | 0 | 0 |
| write-only files | 1 | 4.0G | 4.0G |
| read/write files | 0 | 0 | 0 |
| created files | 1 | 4.0G | 4.0G |

Timespan from first to last read access on independent files



Timespan from first to last write access on independent files



Timespan from first to last access on files shared by all processes
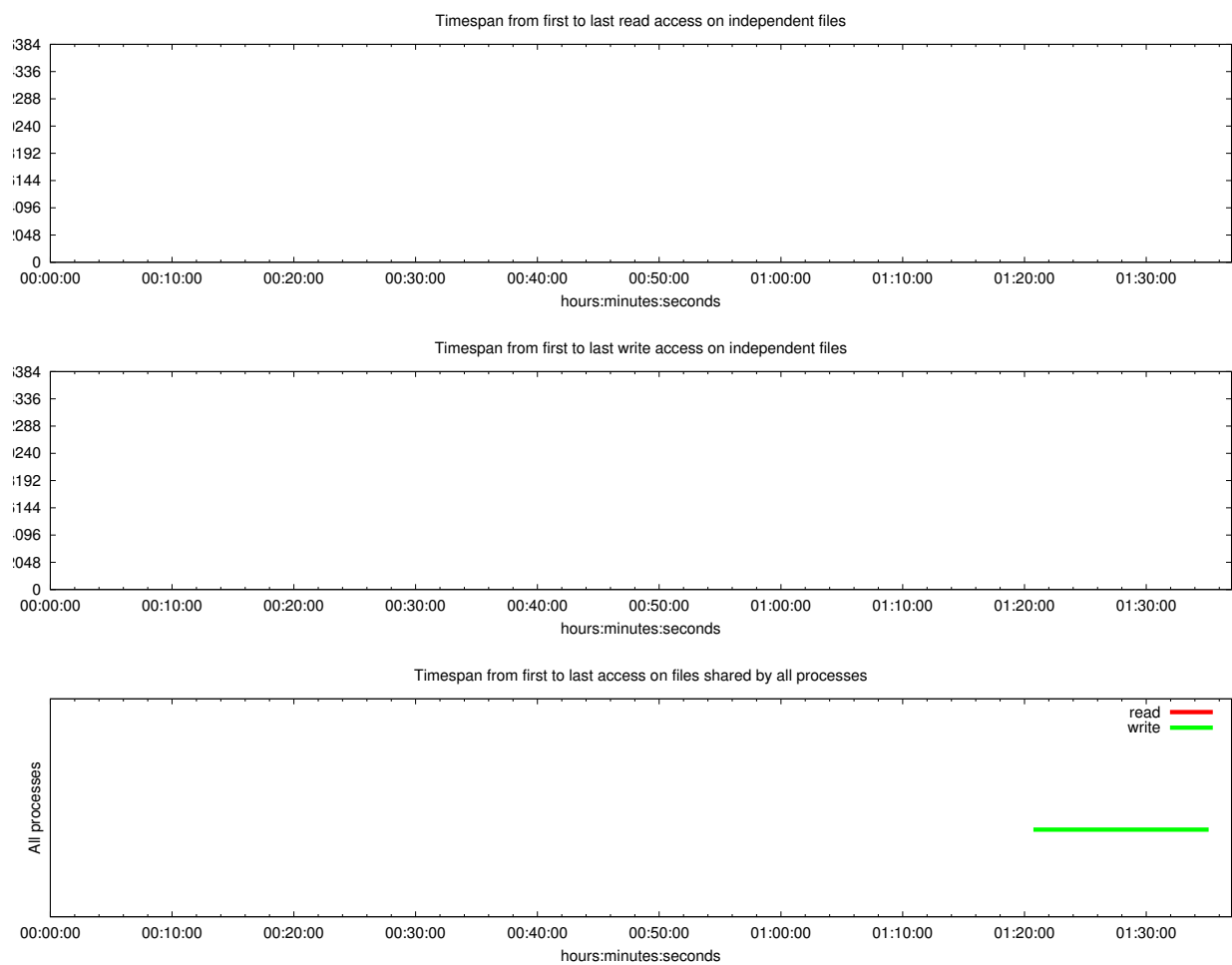


## Average I/O per process

| | Cumulative time spent in I/O functions (seconds) | Amount of I/O (MB) |
|---|---|---|
| Independent reads | 0.000000 | 0.000000 |
| Independent writes | 0.000000 | 0.000000 |
| Independent metadata | 0.000000 | N/A |
| Shared reads | 0.000000 | 0.000000 |
| Shared writes | 432.924636 | 0.246300 |
| Shared metadata | 0.252961 | N/A |

## Data Transfer Per Filesystem

| File System | Write | | Read | |
|---|---|---|---|---|
| | MiB | Ratio | MiB | Ratio |
| /scratch1 | 4035.38033 | 1.00000 | 0.00000 | 0.00000 |

/global/u2/y/yanfei/GlobalStarMidFlux/bin/./athena -r /scratch1/scratchdirs/yanfei/GlobalStarMidFlux/restart/star.out3.00023.rst time/tlim=0.14 -d /scratch1/scratchdirs/yanfei/GlobalStarMidFlux

Variance in Shared Files

| File Suffix | Processes | Fastest | | | Slowest | | | $\sigma$ | |
|---|---|---|---|---|---|---|---|---|---|
| | | Rank | Time | Bytes | Rank | Time | Bytes | Time | Bytes |
| ...ut1.00028.athdf | 16384 | 5537 | 95.816209 | 253K | 6542 | 767.932816 | 253K | 106 | 15.1 |