

MiniAOD Summary

- Played with memory settings
 - `RNTupleWriteOptions::SetMaxUnzippedClusterSize`
 - default is 2^{29} so I tried 2^{28}
 - `RNTupleWriteOptions::SetApproxZippedClusterSize`
 - default is 50 million so tried 25 million
 - this is the one RNTuple developers prefer we use

MiniAOD Writing Summary

| | File Size | File Size Ratio | Max Allocation Difference | Max RSS Difference | Throughput 1 thread | Throughput 4 threads | Throughput 8 threads |
|----------------------------------|---------------|-----------------|---------------------------|---------------------|---------------------|----------------------|----------------------|
| TTree | 4,685,680,260 | 1.000 | 0 | 0 | 36.98 | 71.69 | 71.83 |
| TTree No Split | 5,089,589,225 | 1.086 | -169,344,856 | -239,844,557 | 33.44 | 47.62 | 52.29 |
| RNTuple | 4,389,401,160 | 0.937 | 671,073,224 | 645,521,408 | 46.42 | 160.95 | 202.51 |
| RNTuple NoBufferedWrite | 4,458,400,816 | 0.951 | -483,245,408 | -399,437,824 | 43.26 | 41.37 | 41.46 |
| RNTuple NoSplit | 5,156,415,086 | 1.100 | 212,802,104 | 64,682,885 | 35.85 | 199.68 | 304.32 |
| RNTuple NoSplit NoBufferedWrite | 5,160,006,548 | 1.101 | -792,194,000 | -739,878,994 | 35.51 | 34.83 | 34.54 |
| RNTuple maxUnzipCluster 2^{28} | 4,367,786,527 | 0.932 | 196,271,632 | 97,838,858 | 43.22 | 122.25 | 154.70 |
| RNTuple zipCluster 25M | 4,371,796,184 | 0.933 | 156,402,944 | 166,908,559 | 44.52 | 123.46 | 164.07 |

Throughput

