



# Nextflow workflow report

[gigantic\_mcnulty]

Workflow execution completed successfully!

#### **Run times**

17-Apr-2021 18:28:27 - 18-Apr-2021 00:22:55 (duration: **5h 54m 28s**)

78 succeeded

#### **Nextflow command**

nextflow run main.nf -profile winter, benchmarking -with-report -with-timeline -with-trace -with-dag -work-dir/fastscratch/liuya/nanocompare/work

#### **CPU-Hours**

55.2

### Launch directory

/pod/2/li-lab/yang/workspace/nano-compare

#### Work directory

/fastscratch/liuya/nanocompare/work

#### **Project directory**

/pod/2/li-lab/yang/workspace/nano-compare

#### Script name

main.nf

### **Script ID**

4fbf966d759df9af741e38d87d0f68b8

### Workflow session

b5ddfa6b-c970-4882-906a-4e4942b00dc0

#### Workflow profile

winter, benchmarking

#### **Nextflow version**

version 20.10.0, build 5430 (01-11-2020 15:14 UTC)

# Resource Usage

These plots give an overview of the distribution of resource usage for each process.

## **CPU**

Raw Usage

% Allocated

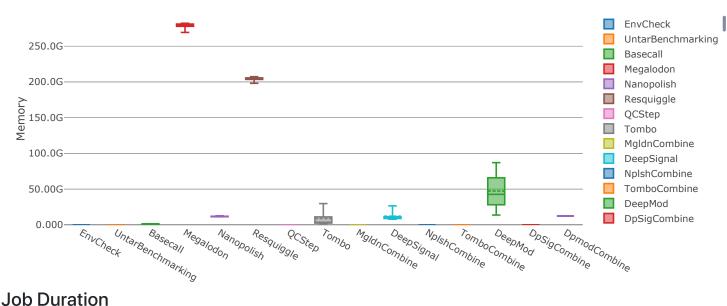
#### **Nextflow Report** 800.0 EnvCheck UntarBenchmarking % single core CPU usage Basecall Megalodon 600.0 Nanopolish Resquiggle QCStep 400.0 Tombo MgldnCombine DeepSignal **NplshCombine** 200.0 TomboCombine ---DeepMod DpSigCombine 0.0 UntarBenchmarking MgldnCombine DeepSignal -NolshCombine TomboCombine D<sub>pSigCombine</sub> -D<sub>D</sub><sub>mod</sub>Combine</sub> Megalodon Nanopolish $Q_{CSt_{ep}}$ Tombo DeepMod Resquiggle

## Memory

Physical (RAM) Virtual (RAM + Disk swap)

% RAM Allocated

## Physical Memory Usage

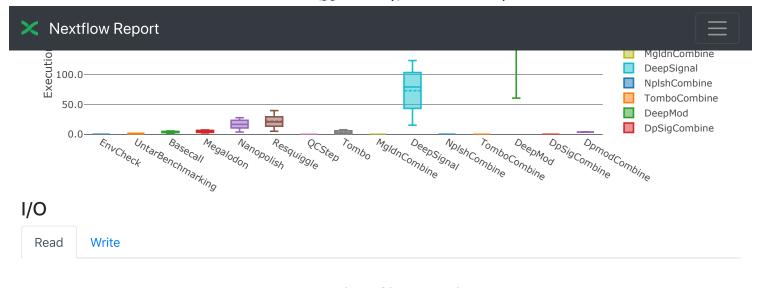


Raw Usage

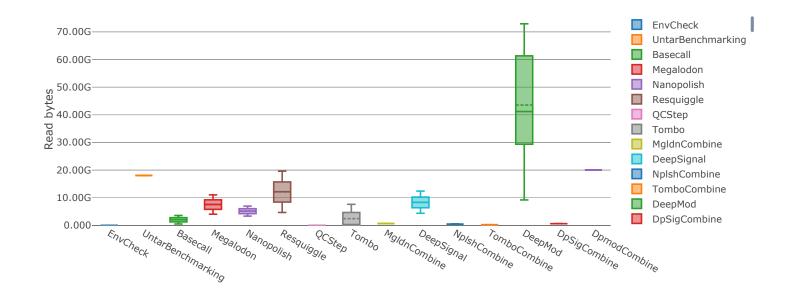
% Allocated

## Task execution real-time



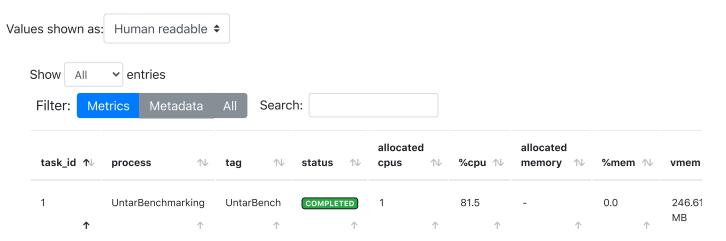


## Number of bytes read



# **Tasks**

This table shows information about each task in the workflow. Use the search box on the right to filter rows for specific values. Clicking headers will sort the table by that value and scrolling side to side will reveal more columns.



#### **Nextflow Report** 3 Basecall MB1600K 1 53.2 0.5 12.807 COMPLETED GB 4 12.870 Basecall MB2400K 1 62.7 0.6 COMPLETED GB 5 MB1600K 332.0 145.9 328.89 Megalodon 1 COMPLETED GB 6 Megalodon MB2400K 1 367.8 147.6 332.67 COMPLETED GB 7 Basecall MB4000K 1 73.9 0.6 14.484 COMPLETED GB 8 MB3200K 0.6 12.932 Basecall 68.7 GB 9 Basecall MB5600K 1 89.1 0.7 13.120 COMPLETED GB 10 Basecall MB4800K COMPLETED 1 85.0 0.6 13.057 GB 93.4 0.7 11 Basecall MB7200K COMPLETED 1 13.124 GB 12 Basecall MB6400K COMPLETED 1 90.3 0.7 14.588 GB 13 MB8000K 1 100.0 0.7 14.776 Basecall COMPLETED GB 45.1 12.749 14 Basecall MB800K COMPLETED 1 0.5 GB 15 MB3200K 1 390.8 147.5 333.51 Megalodon COMPLETED GB 16 Megalodon MB4000K 1 454.3 148.4 333.86 COMPLETED GB 17 Megalodon MB4800K 1 433.4 147.4 335.71 COMPLETED GB 149.0 18 Megalodon MB5600K COMPLETED 1 413.2 335.41 GB 19 MB6400K 1 406.5 149.7 335.64 Megalodon COMPLETED GB

Megalodon

MB7200K

COMPLETED

1

401.4

20

332.67

GB

148.0

#### **Nextflow Report** 22 Megalodon MB800K 1 261.5 143.4 325.50 COMPLETED GB 23 202.23 Resquiggle MB800K 1 589.3 98.1 COMPLETED GB 24 MB800K 441.3 6.4 18.124 DeepMod 1 COMPLETED GB 25 Nanopolish MB800K 1 150.8 5.8 13.401 COMPLETED GB 26 Nanopolish MB1600K 1 136.1 5.8 13.735 COMPLETED GB 27 MB1600K 670.8 99.4 203.72 Resquiggle GB 28 DeepMod MB1600K 1 606.5 9.2 25.415 COMPLETED GB 29 Nanopolish MB2400K COMPLETED 1 138.9 8.6 13.546 GB 691.4 99.1 30 Resquiggle MB2400K COMPLETED 1 204.58 GB 31 DeepMod MB2400K COMPLETED 1 713.2 21.3 37.25C GB 32 MB3200K 1 710.6 100.4 209.69 Resquiggle COMPLETED GB 13.393 33 Nanopolish MB3200K COMPLETED 1 114.7 5.8 GB 34 DeepMod MB3200K 1 752.4 14.2 37.386 COMPLETED GB 35 DeepMod MB4000K 1 750.9 18.1 46.900 COMPLETED GB 36 MB4000K 1 135.5 8.9 13.401 Nanopolish COMPLETED GB 205.07 37 Resquiggle MB4000K COMPLETED 1 703.0 98.7 GB 38 MB4800K 767.6 21.9 56.751 DeepMod 1 COMPLETED GB

Resquiggle

MB4800K

COMPLETED

1

714.1

39

204.95

GB

99.1

50

51

52

53

54

55

56

57

58

DeepMod

Nanopolish

QCStep

Resquiggle

DeepSignal

MgldnCombine

Tombo

Tombo

MB8000K

MB8000K

MB8000K

MB800K

MB800K

MB1600K

MB1600K

COMPLETED

COMPLETED

COMPLETED

COMPLETED

COMPLETED

COMPLETED

COMPLETED

COMPLETED

COMPLETED

1

1

1

1

1

1

1

1

796.6

113.2

11.4

719.2

99.5

752.2

79.0

101.0

775.3

40.6

6.3

0.0

99.7

1.6

14.1

0.0

1.8

3.8

112.28 GB

13.673

110.77

207.49

43.966

36.277

224.94

46.282

14.677

MB

GB

GB

GB

MB

GB

GB

GB

#### 5/7/2021 [gigantic\_mcnulty] Nextflow Workflow Report **Nextflow Report** 41 DeepMod MB5600K 1 774.9 30.2 79.532 COMPLETED GB 13.636 42 Nanopolish MB5600K 1 118.3 6.4 COMPLETED GB 43 MB5600K 718.0 100.5 207.29 Resquiggle 1 COMPLETED GB 44 DeepMod MB6400K 1 789.9 31.5 81.287 COMPLETED GB 45 Nanopolish MB6400K 1 113.9 6.6 13.299 COMPLETED GB MB6400K 723.6 99.6 206.6 46 Resquiggle GB 47 Resquiggle MB7200K 1 724.5 99.1 204.88 COMPLETED GB 48 Nanopolish MB7200K COMPLETED 1 113.5 6.8 13.407 GB 785.5 33.6 49 DeepMod MB7200K COMPLETED 1 89.328 GB

DeepSignal

#### **Nextflow Report** 60 Tombo MB2400K 1 376.2 1.3 223.34 COMPLETED GB 61 99.5 46.96 Tombo MB3200K 1 1.2 COMPLETED GB 62 MB3200K 784.2 3.2 15.925 DeepSignal 1 COMPLETED GB 63 DeepSignal MB4000K 1 769.0 4.9 16.047 COMPLETED GB 64 Tombo MB4000K 1 100.1 1.3 47.027 COMPLETED GB 65 MB4800K 100.8 1.3 47.239 Tombo GB 66 DeepSignal MB4800K 1 767.7 3.8 16.915 COMPLETED GB 67 DeepSignal MB5600K COMPLETED 1 776.4 3.7 17.333 GB 1 466.0 15.0 273.42 68 Tombo MB5600K COMPLETED GB 69 Tombo MB6400K COMPLETED 1 100.3 1.4 47.249 GB 70 DeepSignal MB6400K 1 786.9 4.0 17.773 COMPLETED GB 71 518.7 547.16 Tombo MB7200K COMPLETED 1 6.0 GB 72 DeepSignal MB7200K 1 769.9 4.4 18.388 COMPLETED GB 73 **NplshCombine** COMPLETED 1 71.5 0.0 224.94 MB 74 DeepSignal MB8000K 1 771.2 4.6 18.852 COMPLETED GB 75 MB8000K 549.61 Tombo COMPLETED 1 530.6 7.2 GB 76 TomboCombine 1 0.0 220.21 15.2 COMPLETED MB 77 DpSigCombine 0.0 220.34 COMPLETED 17.8 МВ





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