```
Keyboard-interactive authentication prompts from server:
| Duo two-factor login for mkhaz002
|
| Enter a passcode or select one of the following options:
|
|  1. Duo Push to XXX-XXX-7909
|  2. SMS passcodes to XXX-XXX-7909
|
| Passcode or option (1-2): 1
End of keyboard-interactive prompts from server
```

```
                        • MobaXterm Personal Edition v23.4 •
                    (SSH client, X server and network tools)

   ➤ SSH session to mkhaz002@cluster.hpcc.ucr.edu
     • Direct SSH       : ✓
     • SSH compression : ✓
     • SSH-browser      : ✓
     • X11-forwarding  :  ✓   (remote display is forwarded through SSH)

   ➤ For more info, ctrl+click on help or visit our website.
```

```
Success. Logging you in...
Last login: Wed Nov 22 15:14:07 2023 from 47.34.185.28
-------------------------------------------------------------------------------
 University of California, Riverside - HPCC (High-Performance Computing Center)
-------------------------------------------------------------------------------

[ Nov 14, 2023 - New Headnodes ]

As part of HPCC's recent NSF node purchase, we are providing two new headnodes
for the benefit of our users: bluejay and skylark. These nodes are identical to
our latest "epyc" nodes in terms of compute power and interconnect bandwidth,
and should provide superior performance compared to the old headnode "jay".

Users will be automatically routed to one of the new headnodes upon their next
login to cluster.hpcc.ucr.edu . If you need to return to jay for any reason,
please login to secure.hpcc.ucr.edu . The old headnode will be shutdown at a
later date, after all of jay's existing srun sessions conclude.


[ Nov 17, 2023 - New Default Partition ]

A new default partition, "hpcc_default", that combined the Intel and Epyc nodes
has been released. This partition aims to balance node utilization and avoid
crowding a single partition while others remain idle. Users needing a specific
CPU architecture should assign jobs to the Intel or Batch/Epyc partition
depending on their needs.


---


More information about HPCC and how to use the resources provided can
be found at https://hpcc.ucr.edu/manuals/hpc_cluster/
```

Please send all questions and support requests to support@hpcc.ucr.edu
You can also contact us using Slack (https://ucr-hpcc.slack.com)

Note: The latest version of R is a module R/4.3.0

----

mkhaz002@skylark:~$ module avail vel
-- /opt/linux/rocky/8.x/x86_64/modules
----
velvet/1.2.10 **vel**vet/1.2.10-bigassembly **vel**vetoptimiser/2.2.6

Key:
modulepath default-version
mkhaz002@skylark:~$ srun --x11 -p epyc -t 14-00:00:00 -c 256 --mem 900GB --pty bash -l
srun: job 1074112 queued and waiting for resources
srun: job 1074112 has been allocated resources
srun --x11 -p epyc -t 14-00:00:00 -c 256 --mem 900GB --pty bash -l
mkhaz002@r24:~$ srun --x11 -p epyc -t 14-00:00:00 -c 256 --mem 900GB --pty bash -l
srun: error: Ignoring --x11 option for a job step within an existing job. Set x11 options
at job allocation time.
mkhaz002@r24:~$ squeue --me
             JOBID PARTITION   NAME   USER ST   TIME NODES NODELIST(REASON)
           1074112   epyc   bash mkhaz002 R   0:14   1 r24
mkhaz002@r24:~$ module load velvetoptimiser/2.2.6
(/opt/linux/rocky/8.x/x86_64/pkgs/velvetoptimiser/2.2.6) mkhaz002@r24:~$
VelvetOptimiser.pl -s 21 -e 121 -f '-fastq.gz -shortPaired -separate
/bigdata/adamslab/mkhaz002/WholeGenomeSequence/BBmap/WA_lib_051823_S1_L002_R1_001_norm
alized.fastq.gz
/bigdata/adamslab/mkhaz002/WholeGenomeSequence/BBmap/WA_lib_051823_S1_L002_R2_001_norm
alized.fastq.gz' -o /bigdata/adamslab/mkhaz002/WholeGenomeSequence/Velvet-optimiser/

****
          VelvetOptimiser.pl Version 2.2.6
****
Number of CPUs available: 256
Current free RAM: 1976.162GB
Velvet OMP compiler setting: 1
Nov 23 21:48:13 Starting to check input parameters.
        Velveth parameter string OK.
Nov 23 21:48:13 Finished checking input parameters.
Logfile name: 23-11-2023-21-48-13_Logfile.txt
Velvet details:
        Velvet version: 1.2.10
        Compiled categories: 4
        Compiled max kmer length: 191
        Maximum number of velvetinstances to run: 256
Will run velvet optimiser with the following paramters:
        Velveth parameter string:
                -fastq.gz -shortPaired -separate
/bigdata/adamslab/mkhaz002/WholeGenomeSequence/BBmap/WA_lib_051823_S1_L002_R1_001_norm
alized.fastq.gz
/bigdata/adamslab/mkhaz002/WholeGenomeSequence/BBmap/WA_lib_051823_S1_L002_R2_001_norm
alized.fastq.gz

```
        Velveth start hash values:        21
        Velveth end hash value:           121
        Velveth hash step value:          2
        Velvetg minimum coverage cutoff to use: 0

        Read tracking for final assembly off.
Nov 23 21:48:13 Beginning velveth runs.
Nov 23 21:48:13          Running velveth with hash value: 21.
Nov 23 21:48:15          Running velveth with hash value: 23.
Nov 23 21:48:17          Running velveth with hash value: 25.
Nov 23 21:48:19          Running velveth with hash value: 27.
Nov 23 21:48:21          Running velveth with hash value: 29.
Nov 23 21:48:23          Running velveth with hash value: 31.
Nov 23 21:48:25          Running velveth with hash value: 33.
Nov 23 21:48:27          Running velveth with hash value: 35.
Nov 23 21:48:29          Running velveth with hash value: 37.
Nov 23 21:48:31          Running velveth with hash value: 39.
Nov 23 21:48:33          Running velveth with hash value: 41.
Nov 23 21:48:35          Running velveth with hash value: 43.
Nov 23 21:48:37          Running velveth with hash value: 45.
Nov 23 21:48:39          Running velveth with hash value: 47.
Nov 23 21:48:41          Running velveth with hash value: 49.
Nov 23 21:48:43          Running velveth with hash value: 51.
Nov 23 21:48:45          Running velveth with hash value: 53.
Nov 23 21:48:47          Running velveth with hash value: 55.
Nov 23 21:48:49          Running velveth with hash value: 57.
Nov 23 21:48:51          Running velveth with hash value: 59.
Nov 23 21:48:53          Running velveth with hash value: 61.
velveth: Could not write into file
Velveth failed!  Response:
1
velveth: Could not write into file
Velveth failed!  Response:
1
velveth: Could not write into file
velveth: Could not write into file
Velveth failed!  Response:
1
velveth: Could not write into file
Velveth failed!  Response:
1
Nov 23 21:48:55          Velveth with hash value 41 finished.
velveth: Could not write into file
Velveth failed!  Response:
1
Velveth failed!  Response:
1
velveth: Could not write into file
velveth: Could not write into file
Velveth failed!  Response:
1
Velveth failed!  Response:
1
velveth: Could not write into file
velveth: Could not write into file
```

```
Velveth failed!  Response:
1
Velveth failed!  Response:
1
Nov 23 21:48:55         Velveth with hash value 59 finished.
velveth: Could not write into file
velveth: Could not write into file
Velveth failed!  Response:
1
Nov 23 21:48:55         Velveth with hash value 45 finished.
Velveth failed!  Response:
1
velveth: Could not write into file
velveth: Could not write into file
Velveth failed!  Response:
1
Velveth failed!  Response:
1
Waiting for thread 1 to complete.
Nov 23 21:48:55         Velveth with hash value 49 finished.
velveth: Could not write into file
velveth: Could not write into file
Nov 23 21:48:55         Velveth with hash value 47 finished.
Velveth failed!  Response:
1
Velveth failed!  Response:
1
Nov 23 21:48:55         Velveth with hash value 27 finished.
Nov 23 21:48:55         Velveth with hash value 23 finished.
Nov 23 21:48:55         Velveth with hash value 53 finished.
Nov 23 21:48:55         Velveth with hash value 43 finished.
Nov 23 21:48:55         Velveth with hash value 39 finished.
velveth: Could not write into file
Nov 23 21:48:55         Velveth with hash value 37 finished.
Nov 23 21:48:55         Velveth with hash value 61 finished.
Nov 23 21:48:55         Velveth with hash value 57 finished.
Nov 23 21:48:55         Velveth with hash value 35 finished.
Nov 23 21:48:55         Velveth with hash value 25 finished.
Velveth failed!  Response:
1
velveth: Could not write into file
Velveth failed!  Response:
1
Nov 23 21:48:55         Velveth with hash value 31 finished.
velveth: Could not write into file
Nov 23 21:48:55         Velveth with hash value 29 finished.
Nov 23 21:48:55         Velveth with hash value 33 finished.
velveth: Could not write into file
Velveth failed!  Response:
1
velveth: Could not write into file
Velveth failed!  Response:
1
Nov 23 21:48:55         Velveth with hash value 51 finished.
Nov 23 21:48:55         Velveth with hash value 55 finished.
```

Velveth failed! Response:
1
Nov 23 21:48:55   Velveth with hash value 21 finished.
Warning: unable to close filehandle properly: Disk quota exceeded during global
destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 2 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global
destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 3 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global
destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 4 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global
destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 5 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global
destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 6 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global
destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 7 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global
destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 8 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global
destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 9 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global
destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 10 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global
destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 11 to complete.
Waiting for thread 12 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global
destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 13 to complete.
Waiting for thread 14 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global
destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 15 to complete.
Waiting for thread 16 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global

destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 17 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global
destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 18 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global
destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 19 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global
destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 20 to complete.
Waiting for thread 21 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global
destruction.
Unbalanced saves: 9 more saves than restores
Velveth failed to run! Must be a problem with file types, check by running velveth manually
or by using -v option and reading the log file.
(/opt/linux/rocky/8.x/x86_64/pkgs/velvetoptimiser/2.2.6) mkhaz002@r24:~$ check_quota
home

	Block Limits						File Limits					
Filesystem	type	blocks	quota	limit	in_doubt	grace		files	quota	limit	in_doubt	grace	Remarks
home	USR	30G	20G	30G	3.5M	7 days		12204	0	0	0	none	

(/opt/linux/rocky/8.x/x86_64/pkgs/velvetoptimiser/2.2.6) mkhaz002@r24:~$ check_quota
bigdata

	Block Limits						File Limits					
Filesystem	type	blocks	quota	limit	in_doubt	grace		files	quota	limit	in_doubt	grace	Remarks
bigdata	FILESET	9.733T	10T	10T	2.499G	none		3884757	0	0	754	none	

(/opt/linux/rocky/8.x/x86_64/pkgs/velvetoptimiser/2.2.6) mkhaz002@r24:~$ check_quota
bigdata

	Block Limits						File Limits					
Filesystem	type	blocks	quota	limit	in_doubt	grace		files	quota	limit	in_doubt	grace	Remarks
bigdata	FILESET	9.699T	10T	10T	3.884G	none		3884752	0	0	759	none	

(/opt/linux/rocky/8.x/x86_64/pkgs/velvetoptimiser/2.2.6) mkhaz002@r24:~$
VelvetOptimiser.pl -s 21 -e 121 -f '-fastq.gz -shortPaired -separate
/bigdata/adamslab/mkhaz002/WholeGenomeSequence/BBmap/WA_lib_051823_S1_L002_R1_001_norm
alized.fastq.gz
/bigdata/adamslab/mkhaz002/WholeGenomeSequence/BBmap/WA_lib_051823_S1_L002_R2_001_norm
alized.fastq.gz' -o /bigdata/adamslab/mkhaz002/WholeGenomeSequence/Velvet-optimiser/

```
****************************************************
          VelvetOptimiser.pl Version 2.2.6
****************************************************
```

```
Number of CPUs available: 256
Current free RAM: 1976.161GB
Velvet OMP compiler setting: 1
Nov 23 21:56:12 Starting to check input parameters.
        Velveth parameter string OK.
Nov 23 21:56:12 Finished checking input parameters.
Logfile name: 23-11-2023-21-56-12_Logfile.txt
Velvet details:
        Velvet version: 1.2.10
        Compiled categories: 4
        Compiled max kmer length: 191
        Maximum number of velvetinstances to run: 256
Will run velvet optimiser with the following paramters:
        Velveth parameter string:
                -fastq.gz -shortPaired -separate
/bigdata/adamslab/mkhaz002/WholeGenomSequence/BBmap/WA_lib_051823_S1_L002_R1_001_norm
alized.fastq.gz
/bigdata/adamslab/mkhaz002/WholeGenomSequence/BBmap/WA_lib_051823_S1_L002_R2_001_norm
alized.fastq.gz
        Velveth start hash values:      21
        Velveth end hash value:         121
        Velveth hash step value:        2
        Velvetg minimum coverage cutoff to use: 0

        Read tracking for final assembly off.
Nov 23 21:56:12 Beginning velveth runs.
Nov 23 21:56:12         Running velveth with hash value: 21.
Nov 23 21:56:14         Running velveth with hash value: 23.
Nov 23 21:56:16         Running velveth with hash value: 25.
Nov 23 21:56:18         Running velveth with hash value: 27.
Nov 23 21:56:20         Running velveth with hash value: 29.
Nov 23 21:56:22         Running velveth with hash value: 31.
Nov 23 21:56:24         Running velveth with hash value: 33.
Nov 23 21:56:26         Running velveth with hash value: 35.
Nov 23 21:56:28         Running velveth with hash value: 37.
Nov 23 21:56:30         Running velveth with hash value: 39.
Nov 23 21:56:32         Running velveth with hash value: 41.
Nov 23 21:56:34         Running velveth with hash value: 43.
Nov 23 21:56:36         Running velveth with hash value: 45.
Nov 23 21:56:38         Running velveth with hash value: 47.
Nov 23 21:56:40         Running velveth with hash value: 49.
Nov 23 21:56:42         Running velveth with hash value: 51.
Nov 23 21:56:44         Running velveth with hash value: 53.
Nov 23 21:56:46         Running velveth with hash value: 55.
Nov 23 21:56:48         Running velveth with hash value: 57.
Nov 23 21:56:50         Running velveth with hash value: 59.
Nov 23 21:56:52         Running velveth with hash value: 61.
Nov 23 21:56:54         Running velveth with hash value: 63.
velveth: Could not write into file
Velveth failed!  Response:
1
velveth: Could not write into file
Velveth failed!  Response:
1
velveth: Could not write into file
```

```
Velveth failed!  Response:
1
Nov 23 21:56:55        Velveth with hash value 45 finished.
velveth: Could not write into file
Nov 23 21:56:55        Velveth with hash value 27 finished.
Nov 23 21:56:55        Velveth with hash value 53 finished.
velveth: Could not write into file
Velveth failed!  Response:
1
velveth: Could not write into file
Velveth failed!  Response:
1
Nov 23 21:56:55        Velveth with hash value 35 finished.
Nov 23 21:56:55        Velveth with hash value 23 finished.
velveth: Could not write into file
Velveth failed!  Response:
1
velveth: Could not write into file
Velveth failed!  Response:
1
velveth: Could not write into file
Velveth failed!  Response:
1
Nov 23 21:56:55        Velveth with hash value 57 finished.
Nov 23 21:56:55        Velveth with hash value 43 finished.
velveth: Could not write into file
Velveth failed!  Response:
1
Velveth failed!  Response:
1
velveth: Could not write into file
Velveth failed!  Response:
1
Nov 23 21:56:55        Velveth with hash value 59 finished.
Nov 23 21:56:55        Velveth with hash value 21 finished.
Nov 23 21:56:55        Velveth with hash value 51 finished.
velveth: Could not write into file
Velveth failed!  Response:
1
Nov 23 21:56:55        Velveth with hash value 25 finished.
velveth: Could not write into file
Velveth failed!  Response:
1
Nov 23 21:56:55        Velveth with hash value 61 finished.
velveth: Could not write into file
Velveth failed!  Response:
1
Nov 23 21:56:55        Velveth with hash value 31 finished.
velveth: Could not write into file
Nov 23 21:56:55        Velveth with hash value 49 finished.
Velveth failed!  Response:
1
velveth: Could not write into file
Velveth failed!  Response:
1
```

```
Nov 23 21:56:55        Velveth with hash value 33 finished.
velveth: Could not write into file
Velveth failed!  Response:
1
Nov 23 21:56:55        Velveth with hash value 39 finished.
velveth: Could not write into file
Velveth failed!  Response:
1
Nov 23 21:56:55        Velveth with hash value 37 finished.
velveth: Could not write into file
Velveth failed!  Response:
1
Nov 23 21:56:55        Velveth with hash value 63 finished.
velveth: Could not write into file
Velveth failed!  Response:
1
Nov 23 21:56:55        Velveth with hash value 47 finished.
velveth: Could not write into file
Velveth failed!  Response:
1
Nov 23 21:56:55        Velveth with hash value 41 finished.
Nov 23 21:56:55        Velveth with hash value 55 finished.
velveth: Could not write into file
Velveth failed!  Response:
1
Nov 23 21:56:55        Velveth with hash value 29 finished.
Waiting for thread 1 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global
destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 2 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global
destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 3 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global
destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 4 to complete.
Waiting for thread 5 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global
destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 6 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global
destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 7 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global
destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 8 to complete.
Waiting for thread 9 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global
destruction.
```

```
Unbalanced saves: 9 more saves than restores
Waiting for thread 10 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global
destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 11 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global
destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 12 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global
destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 13 to complete.
Waiting for thread 14 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global
destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 15 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global
destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 16 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global
destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 17 to complete.
Waiting for thread 18 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global
destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 19 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global
destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 20 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global
destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 21 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global
destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 22 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global
destruction.
Unbalanced saves: 9 more saves than restores
Velveth failed to run! Must be a problem with file types, check by running velveth manually
or by using -v option and reading the log file.
(/opt/linux/rocky/8.x/x86_64/pkgs/velvetoptimiser/2.2.6) mkhaz002@r24:~$ check_quota
home
                              Block Limits                              |      File
Limits
Filesystem type         blocks      quota      limit   in_doubt    grace |     files
quota      limit in_doubt    grace  Remarks
```

```
home          USR              30G       20G       30G         0   7 days |    12208
0         0        0        none
(/opt/linux/rocky/8.x/x86_64/pkgs/velvetoptimiser/2.2.6) mkhaz002@r24:~$ check_quota
home
                         Block Limits                            |    File
Limits
Filesystem type          blocks     quota     limit   in_doubt    grace |    files
quota     limit in_doubt    grace  Remarks
home          USR           5.411G     20G       30G       384M      none |    12142
0         0       66        none
(/opt/linux/rocky/8.x/x86_64/pkgs/velvetoptimiser/2.2.6) mkhaz002@r24:~$
VelvetOptimiser.pl -s 21 -e 121 -f '-fastq.gz -shortPaired -separate
/bigdata/adamslab/mkhaz002/WholeGenomeSequence/BBmap/WA_lib_051823_S1_L002_R1_001_norm
alized.fastq.gz
/bigdata/adamslab/mkhaz002/WholeGenomeSequence/BBmap/WA_lib_051823_S1_L002_R2_001_norm
alized.fastq.gz' -o /bigdata/adamslab/mkhaz002/WholeGenomeSequence/Velvet-optimiser/

****************************************************
           VelvetOptimiser.pl Version 2.2.6
****************************************************
Number of CPUs available: 256
Current free RAM: 1976.159GB
Velvet OMP compiler setting: 1
Nov 23 22:13:09 Starting to check input parameters.
        Velveth parameter string OK.
Nov 23 22:13:09 Finished checking input parameters.
Logfile name: 23-11-2023-22-13-09_Logfile.txt
Velvet details:
        Velvet version: 1.2.10
        Compiled categories: 4
        Compiled max kmer length: 191
        Maximum number of velvetinstances to run: 256
Will run velvet optimiser with the following paramters:
        Velveth parameter string:
                -fastq.gz -shortPaired -separate
/bigdata/adamslab/mkhaz002/WholeGenomeSequence/BBmap/WA_lib_051823_S1_L002_R1_001_norm
alized.fastq.gz
/bigdata/adamslab/mkhaz002/WholeGenomeSequence/BBmap/WA_lib_051823_S1_L002_R2_001_norm
alized.fastq.gz
        Velveth start hash values:       21
        Velveth end hash value:          121
        Velveth hash step value:         2
        Velvetg minimum coverage cutoff to use: 0

        Read tracking for final assembly off.
Nov 23 22:13:09 Beginning velveth runs.
Nov 23 22:13:09         Running velveth with hash value: 21.
Nov 23 22:13:11         Running velveth with hash value: 23.
Nov 23 22:13:13         Running velveth with hash value: 25.
Nov 23 22:13:15         Running velveth with hash value: 27.
Nov 23 22:13:17         Running velveth with hash value: 29.
Nov 23 22:13:19         Running velveth with hash value: 31.
Nov 23 22:13:21         Running velveth with hash value: 33.
Nov 23 22:13:23         Running velveth with hash value: 35.
Nov 23 22:13:25         Running velveth with hash value: 37.
```

```
Nov 23 22:13:27          Running velveth with hash value: 39.
Nov 23 22:13:29          Running velveth with hash value: 41.
Nov 23 22:13:31          Running velveth with hash value: 43.
Nov 23 22:13:33          Running velveth with hash value: 45.
Nov 23 22:13:35          Running velveth with hash value: 47.
Nov 23 22:13:37          Running velveth with hash value: 49.
Nov 23 22:13:40          Running velveth with hash value: 51.
Nov 23 22:13:42          Running velveth with hash value: 53.
Nov 23 22:13:44          Running velveth with hash value: 55.
Nov 23 22:13:46          Running velveth with hash value: 57.
Nov 23 22:13:48          Running velveth with hash value: 59.
Nov 23 22:13:50          Running velveth with hash value: 61.
Nov 23 22:13:52          Running velveth with hash value: 63.
velveth: Could not write into file
Velveth failed!  Response:
1
Nov 23 22:13:52          Velveth with hash value 63 finished.
velveth: Could not write into file
Velveth failed!  Response:
1
Nov 23 22:13:52          Velveth with hash value 25 finished.
velveth: Could not write into file
Velveth failed!  Response:
1
Nov 23 22:13:52          Velveth with hash value 37 finished.
velveth: Could not write into file
Velveth failed!  Response:
1
velveth: Could not write into file
Nov 23 22:13:52          Velveth with hash value 61 finished.
Velveth failed!  Response:
1
Nov 23 22:13:52          Velveth with hash value 41 finished.
velveth: Could not write into file
Velveth failed!  Response:
1
Nov 23 22:13:52          Velveth with hash value 45 finished.
velveth: Could not write into file
Velveth failed!  Response:
1
Nov 23 22:13:52          Velveth with hash value 49 finished.
velveth: Could not write into file
Velveth failed!  Response:
1
Nov 23 22:13:52          Velveth with hash value 23 finished.
velveth: Could not write into file
Velveth failed!  Response:
1
Nov 23 22:13:52          Velveth with hash value 47 finished.
velveth: Could not write into file
Velveth failed!  Response:
1
velveth: Could not write into file
Velveth failed!  Response:
1
```

```
velveth: Could not write into file
Velveth failed!  Response:
1
velveth: Could not write into file
velveth: Could not write into file
Velveth failed!  Response:
1
Velveth failed!  Response:
1
velveth: Could not write into file
velveth: Could not write into file
Nov 23 22:13:52        Velveth with hash value 33 finished.
Velveth failed!  Response:
1
velveth: Could not write into file
Velveth failed!  Response:
1
velveth: Could not write into file
Velveth failed!  Response:
1
Nov 23 22:13:52        Velveth with hash value 51 finished.
velveth: Could not write into file
velveth: Could not write into file
Velveth failed!  Response:
1
Nov 23 22:13:52        Velveth with hash value 29 finished.
velveth: Could not write into file
Nov 23 22:13:52        Velveth with hash value 39 finished.
Velveth failed!  Response:
1
Nov 23 22:13:52        Velveth with hash value 53 finished.
Velveth failed!  Response:
1
velveth: Could not write into file
Nov 23 22:13:52        Velveth with hash value 55 finished.
Nov 23 22:13:52        Velveth with hash value 43 finished.
Nov 23 22:13:52        Velveth with hash value 59 finished.
Nov 23 22:13:52        Velveth with hash value 35 finished.
Nov 23 22:13:52        Velveth with hash value 57 finished.
Velveth failed!  Response:
1
Nov 23 22:13:52        Velveth with hash value 31 finished.
Nov 23 22:13:52        Velveth with hash value 27 finished.
Velveth failed!  Response:
1
Nov 23 22:13:52        Velveth with hash value 21 finished.
Waiting for thread 1 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global
destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 2 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global
destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 3 to complete.
```

Waiting for thread 4 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 5 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 6 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 7 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 8 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 9 to complete.
Waiting for thread 10 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 11 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 12 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 13 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 14 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 15 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 16 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 17 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 18 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global

destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 19 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global
destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 20 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global
destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 21 to complete.
Waiting for thread 22 to complete.
Velveth failed to run! Must be a problem with file types, check by running velveth manually
or by using -v option and reading the log file.
(/opt/linux/rocky/8.x/x86_64/pkgs/velvetoptimiser/2.2.6) mkhaz002@r24:~$ check_quota
home
                              Block Limits | File
Limits
Filesystem type   blocks   quota   limit   in_doubt   grace | files
quota   limit in_doubt   grace   Remarks
home   USR   30G   20G   30G   3.75M   7 days | 12205
0   0   0   none
(/opt/linux/rocky/8.x/x86_64/pkgs/velvetoptimiser/2.2.6) mkhaz002@r24:~$ export
TMPDIR=/bigdata/adamslab/mkhaz002/tmp/
(/opt/linux/rocky/8.x/x86_64/pkgs/velvetoptimiser/2.2.6) mkhaz002@r24:~$ mkdir -p
$TMPDIR
(/opt/linux/rocky/8.x/x86_64/pkgs/velvetoptimiser/2.2.6) mkhaz002@r24:~$ # Then run
VelvetOptimiser
(/opt/linux/rocky/8.x/x86_64/pkgs/velvetoptimiser/2.2.6) mkhaz002@r24:~$
VelvetOptimiser.pl -s 21 -e 121 -f '-fastq.gz -shortPaired -separate
/bigdata/adamslab/mkhaz002/WholeGenomSequence/BBmap/WA_lib_051823_S1_L002_R1_001_norm
alized.fastq.gz
/bigdata/adamslab/mkhaz002/WholeGenomSequence/BBmap/WA_lib_051823_S1_L002_R2_001_norm
alized.fastq.gz' -o /bigdata/adamslab/mkhaz002/WholeGenomSequence/Velvet-optimiser/

****
          VelvetOptimiser.pl Version 2.2.6
****
Number of CPUs available: 256
Current free RAM: 1976.155GB
Velvet OMP compiler setting: 1
Nov 23 22:24:54 Starting to check input parameters.
        Velveth parameter string OK.
Nov 23 22:24:54 Finished checking input parameters.
Logfile name: 23-11-2023-22-24-54_Logfile.txt
Velvet details:
        Velvet version: 1.2.10
        Compiled categories: 4
        Compiled max kmer length: 191
        Maximum number of velvetinstances to run: 256
Will run velvet optimiser with the following paramters:
        Velveth parameter string:
                -fastq.gz -shortPaired -separate
/bigdata/adamslab/mkhaz002/WholeGenomSequence/BBmap/WA_lib_051823_S1_L002_R1_001_norm
alized.fastq.gz

```
/bigdata/adamslab/mkhaz002/WholeGenomeSequence/BBmap/WA_lib_051823_S1_L002_R2_001_norm
alized.fastq.gz
        Velveth start hash values:      21
        Velveth end hash value:         121
        Velveth hash step value:        2
        Velvetg minimum coverage cutoff to use: 0

        Read tracking for final assembly off.
Nov 23 22:24:54 Beginning velveth runs.
Nov 23 22:24:54         Running velveth with hash value: 21.
Nov 23 22:24:56         Running velveth with hash value: 23.
Nov 23 22:24:58         Running velveth with hash value: 25.
Nov 23 22:25:00         Running velveth with hash value: 27.
Nov 23 22:25:02         Running velveth with hash value: 29.
Nov 23 22:25:04         Running velveth with hash value: 31.
Nov 23 22:25:06         Running velveth with hash value: 33.
Nov 23 22:25:08         Running velveth with hash value: 35.
Nov 23 22:25:10         Running velveth with hash value: 37.
Nov 23 22:25:12         Running velveth with hash value: 39.
Nov 23 22:25:14         Running velveth with hash value: 41.
Nov 23 22:25:16         Running velveth with hash value: 43.
Nov 23 22:25:18         Running velveth with hash value: 45.
Nov 23 22:25:20         Running velveth with hash value: 47.
Nov 23 22:25:22         Running velveth with hash value: 49.
Nov 23 22:25:24         Running velveth with hash value: 51.
Nov 23 22:25:26         Running velveth with hash value: 53.
Nov 23 22:25:29         Running velveth with hash value: 55.
Nov 23 22:25:31         Running velveth with hash value: 57.
Nov 23 22:25:33         Running velveth with hash value: 59.
Nov 23 22:25:35         Running velveth with hash value: 61.
Nov 23 22:25:37         Running velveth with hash value: 63.
velveth: Could not write into file
Velveth failed!  Response:
1
velveth: Could not write into file
Velveth failed!  Response:
1
velveth: Could not write into file
Velveth failed!  Response:
1
Nov 23 22:25:37         Velveth with hash value 57 finished.
Nov 23 22:25:37         Velveth with hash value 29 finished.
velveth: Could not write into file
Velveth failed!  Response:
1
Nov 23 22:25:37         Velveth with hash value 55 finished.
velveth: Could not write into file
Velveth failed!  Response:
1
Nov 23 22:25:37         Velveth with hash value 47 finished.
velveth: Could not write into file
Velveth failed!  Response:
1
velveth: Could not write into file
Nov 23 22:25:37         Velveth with hash value 35 finished.
```

```
Velveth failed!  Response:
1
velveth: Could not write into file
Nov 23 22:25:37        Velveth with hash value 23 finished.
Velveth failed!  Response:
1
velveth: Could not write into file
Velveth failed!  Response:
1
velveth: Could not write into file
Velveth failed!  Response:
1
Nov 23 22:25:37        Velveth with hash value 39 finished.
Nov 23 22:25:37        Velveth with hash value 27 finished.
Nov 23 22:25:37        Velveth with hash value 59 finished.
velveth: Could not write into file
Velveth failed!  Response:
1
velveth: Could not write into file
Velveth failed!  Response:
1
velveth: Could not write into file
Nov 23 22:25:37        Velveth with hash value 31 finished.
velveth: Could not write into file
Velveth failed!  Response:
1
Nov 23 22:25:37        Velveth with hash value 41 finished.
Nov 23 22:25:37        Velveth with hash value 43 finished.
velveth: Could not write into file
Velveth failed!  Response:
1
Nov 23 22:25:37        Velveth with hash value 53 finished.
Velveth failed!  Response:
1
velveth: Could not write into file
Velveth failed!  Response:
1
velveth: Could not write into file
Velveth failed!  Response:
1
velveth: Could not write into file
Nov 23 22:25:37        Velveth with hash value 51 finished.
Velveth failed!  Response:
1
velveth: Could not write into file
Velveth failed!  Response:
1
Nov 23 22:25:37        Velveth with hash value 21 finished.
velveth: Could not write into file
Velveth failed!  Response:
1
velveth: Could not write into file
Velveth failed!  Response:
1
velveth: Could not write into file
```

```
Nov 23 22:25:37        Velveth with hash value 33 finished.
Nov 23 22:25:37        Velveth with hash value 25 finished.
Velveth failed!   Response:
1
Nov 23 22:25:37        Velveth with hash value 45 finished.
Nov 23 22:25:37        Velveth with hash value 61 finished.
Nov 23 22:25:37        Velveth with hash value 63 finished.
Nov 23 22:25:37        Velveth with hash value 49 finished.
Nov 23 22:25:37        Velveth with hash value 37 finished.
Waiting for thread 1 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global
destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 2 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global
destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 3 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global
destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 4 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global
destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 5 to complete.
Waiting for thread 6 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global
destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 7 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global
destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 8 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global
destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 9 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global
destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 10 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global
destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 11 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global
destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 12 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global
destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 13 to complete.
```

```
Warning: unable to close filehandle properly: Disk quota exceeded during global
destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 14 to complete.
Waiting for thread 15 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global
destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 16 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global
destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 17 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global
destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 18 to complete.
Waiting for thread 19 to complete.
Waiting for thread 20 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global
destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 21 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global
destruction.
Unbalanced saves: 9 more saves than restores
Waiting for thread 22 to complete.
Warning: unable to close filehandle properly: Disk quota exceeded during global
destruction.
Unbalanced saves: 9 more saves than restores
Velveth failed to run! Must be a problem with file types, check by running velveth manually
or by using -v option and reading the log file.
(/opt/linux/rocky/8.x/x86_64/pkgs/velvetoptimiser/2.2.6) mkhaz002@r24:~$
```