prepon

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Generate an index for a PON file. This is a prerequisite for using the "--pon" option in mutectcaller.

`prepon` requires that the Contig field be present in the header of the input `.vcf.gz` file in order to do memory allocation at the start of execution. This field should include both the chromosome name and length:

> ##contig=<ID=chr1,length=248956422> ##contig=<ID=chr2,length=242193529> ##contig=<ID=chr3,length=198295559> ...

If your input `.vcf.gz` file does not include these value, run this command to update the header before running `prepon`:

> $ bcftools reheader --fai YOUR_REFERENCE_FILE.fa.fai INPUT_PON.vcf.gz > UPDATED_PON.vcf.gz

Quick Start

> *# This command assumes all the inputs are in INPUT_DIR and all the outputs go to OUTPUT_DIR.* docker run --rm --gpus all --volume INPUT_DIR:/workdir --volume OUTPUT_DIR:/outputdir \ --workdir /workdir \ nvcr.io/nvidia/clara/clara-parabricks:4.3.1-1 \ pbrun prepon \ --in-pon-file /workdir/${INPUT_PON_VCF}

prepon Reference

Build the index for a PON file; this is a prerequisite for mutect pon

Input/Output file options

--in-pon-file IN_PON_FILE

Path to the input PON file in vcf.gz format with its tabix index. (default: None)

Option is required.

Options specific to this tool

(none)

Common options:

--logfile LOGFILE

Path to the log file. If not specified, messages will only be written to the standard error output. (default: None)

--tmp-dir TMP_DIR

Full path to the directory where temporary files will be stored.

--with-petagene-dir WITH_PETAGENE_DIR

Full path to the PetaGene installation directory. By default, this should have been installed at /opt/petagene. Use of this option also requires that the PetaLink library has been preloaded by setting the LD_PRELOAD environment variable. Optionally set the PETASUITE_REFPATH and PGCLOUD_CREDPATH environment variables that are used for data and credentials (default: None)

--keep-tmp

Do not delete the directory storing temporary files after completion.

--no-seccomp-override

Do not override seccomp options for docker (default: None).

--version

View compatible software versions.

GPU options:

--num-gpus NUM_GPUS

Number of GPUs to use for a run. GPUs 0..(NUM_GPUS-1) will be used.