





Quickstart Guide

Requirements

- Compatible with most operating systems: Linux, Windows (running Linux with WSL2), macOS
- Java 11+ or OpenJDK 11+
- <u>Docker or Singularity/Apptainer</u>
- · Have at least 16GB of RAM and 50GB of free storage

Setup (Internet connection required)

- 1. Download or Git Clone the pipeline core files from its GitHub Repository
 - a. Download from: https://github.com/sanger-bentley-group/gps-pipeline/releases
 - b. To clone, run: git clone https://github.com/sanger-bentley-group/gps-pipeline.git
- 2. Initialise the pipeline after changing directory (cd) into the pipeline directory:
 - a. Using Docker: ./run_pipeline --init
 - b. Using Singularity: \(\(\trun \) pipeline \(\trun \) in it \(\trup \) profile singularity
- 3. This can take a while, as it will download 13GB of container images and 8GB of databases

Run (No internet connection required after initialisation)

- 1. Run the pipeline with the directory containing your FASTQ files as the input using --reads
 - a. Using Docker: _/run_pipeline --reads /path/to/reads-dir
 - b. Using Singularity: ./run_pipeline --reads /path/to/reads-dir -profile singularity
- 2. Grab a cup of tea and wait

Tip 1:

If you have not specified output path with --output, the default is the output directory in the pipeline directory.

Tip 2

Each input sample will generate ~2GB intermediate files on average. You might need to process your samples in batches if the storage space is limited on your system. The clean_pipeline helper script of the pipeline may be useful after each successful run.

Documentation

• GitHub Repository: https://github.com/sanger-bentley-group/gps-pipeline

Notice

- · The current release of the pipeline only works with Illumina paired-end short reads
- Use a specific version of the pipeline to ensure consistent output for the same study

