

# HG003 downsample grouped rule DAG: produce\_dmd\_dedup\_cram

Nodes are Snakemake rule types; per-chromosome/per-shard jobs are collapsed. Counts are planned / remaining from the active main controller log when available.  
MAIN\_LOG=.snakemake/log/2026-05-27T195632.640964.snakemake.log | CHECK.UTC=2026-05-27T22:45:08Z | DF\_H.FSX=4.4T 737G 3.7T 17% /fsx

