

## Part 1: Runtime Information

Runtime information has been compiled and saved as CSV files.

The runtime data includes:

- Sample names (\* indicates DB loading samples)
- Cutadapt/STAR/Samtools runtime (seconds)
- Kraken2 unaligned runtime (seconds)
- Kraken2 non-human runtime (seconds)
- Merged input read counts from RRstats
- Merged percent mapped reads from RRstats
- Database loading flags (first samples)

Data source: Parsed from runtime\*.txt files in runtimes/ folder

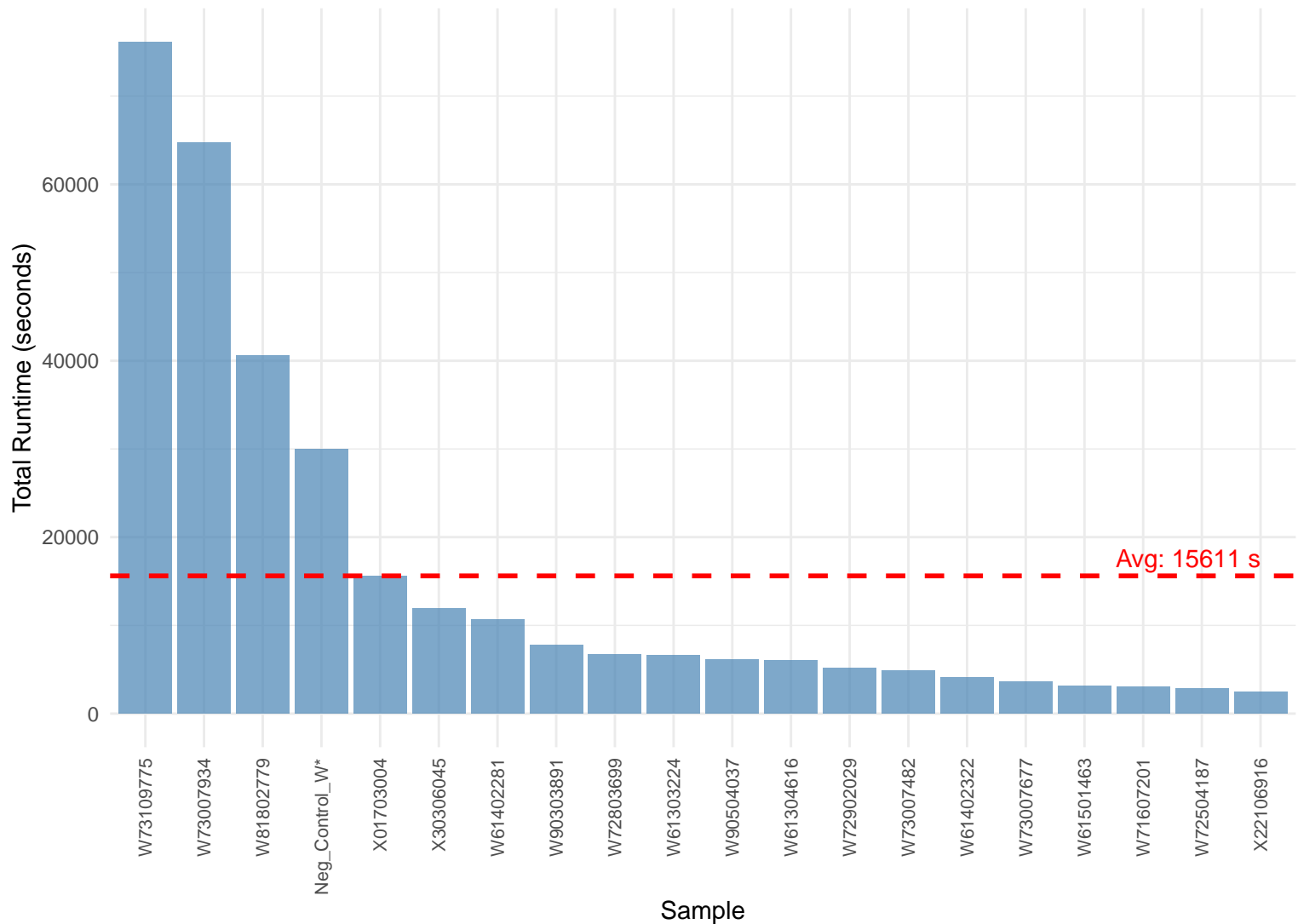
Merging: Combined with read statistics by sample name

Output location: Check outputs/ directory for CSV files containing this data

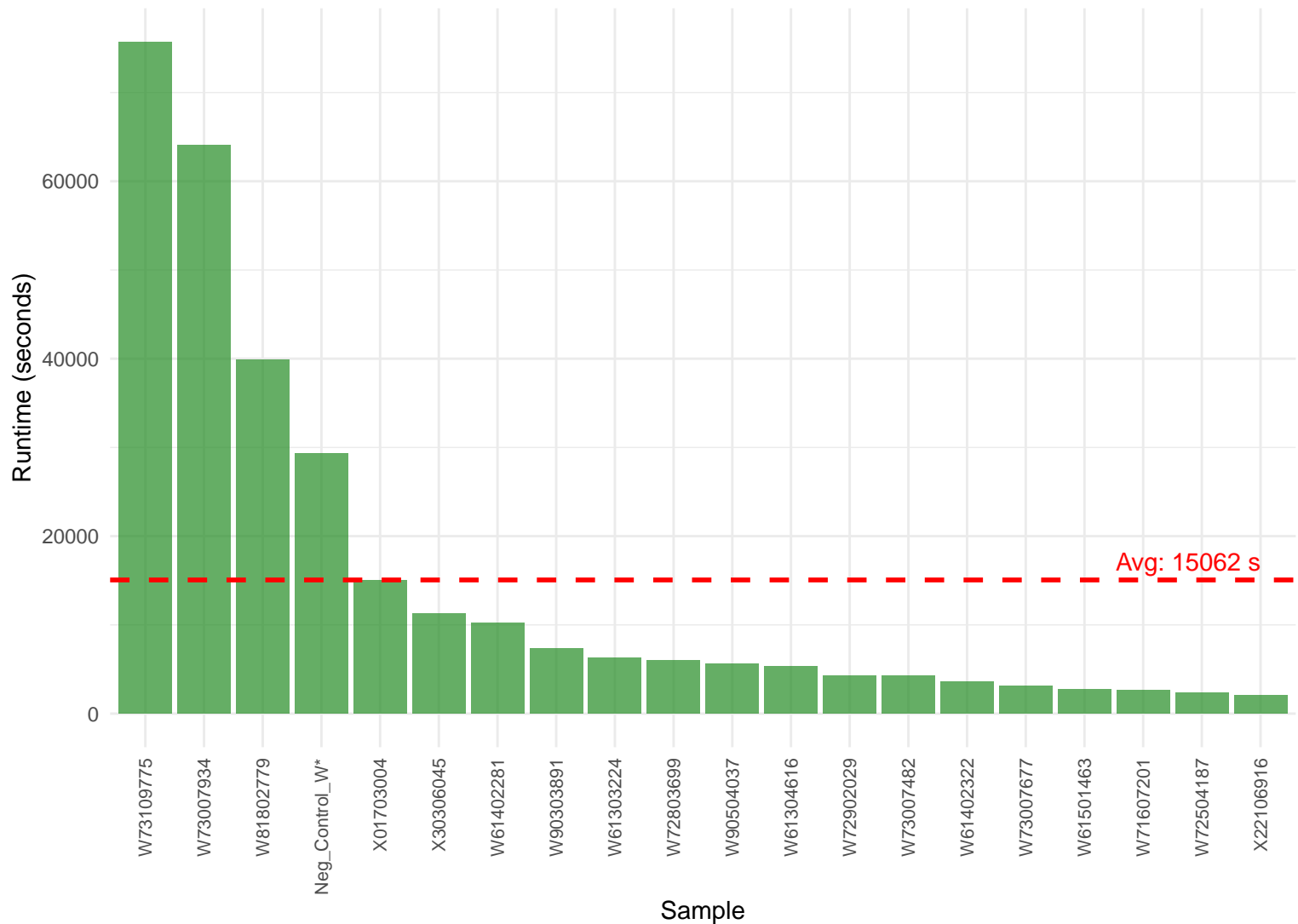
Key findings:

- Total samples with runtime data: 20
- Average Cutadapt/STAR/Samtools runtime: 15062 seconds
- Average Kraken2 unaligned runtime: 459 seconds
- Average Kraken2 non-human runtime: 90 seconds
- Samples involved in DB loading: 1
- Average Kraken2 unaligned runtime per input read: 0.000005 seconds/read
- Average Kraken2 non-human runtime per effective read: 0.000008 seconds/read

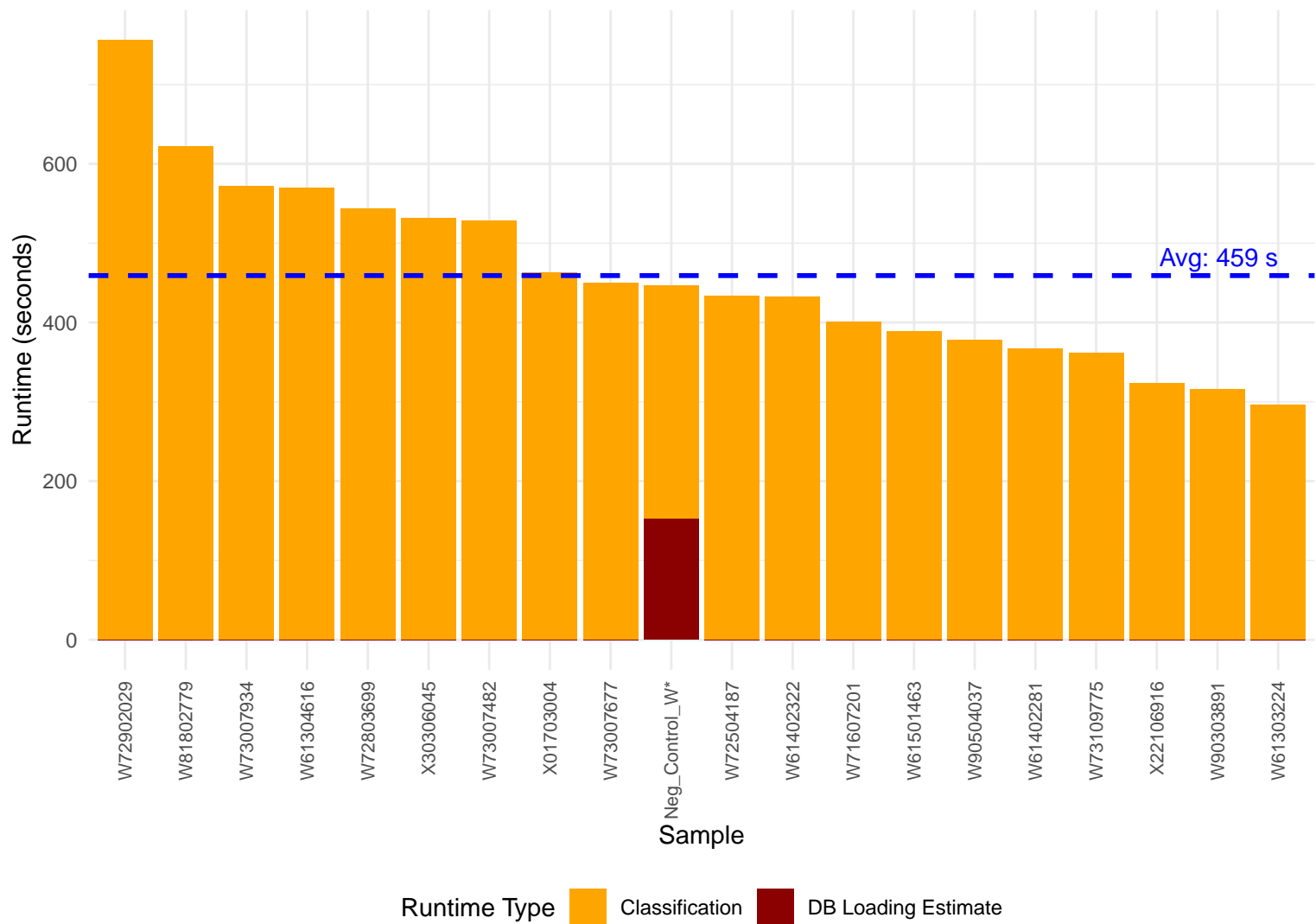
Total Runtime per Sample



Cutadapt/STAR/Samtools Runtime



# Kraken2 Unaligned Runtime



# Kraken2 Non-human Runtime

