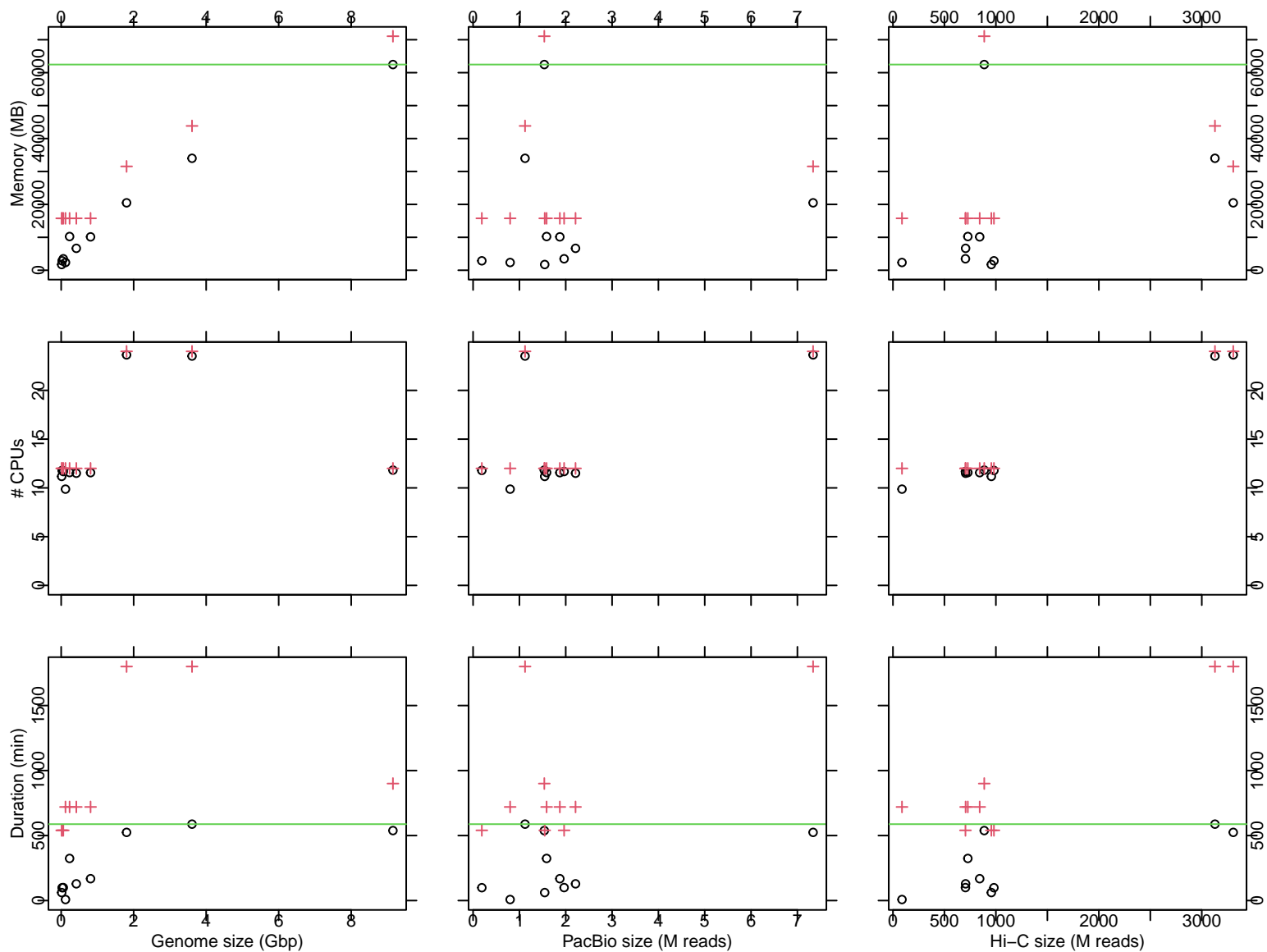
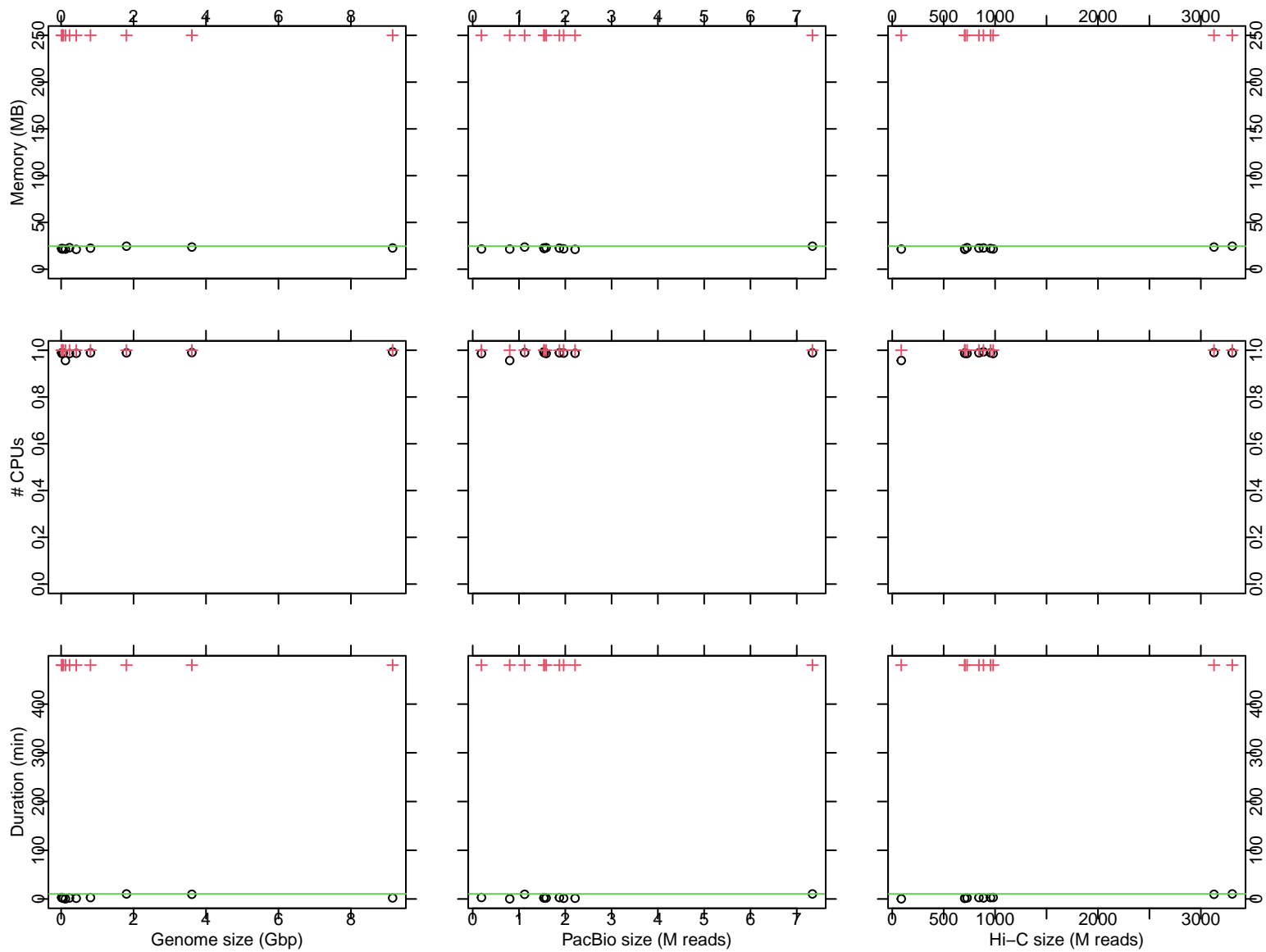


sanger-tol/readmapping - opt5

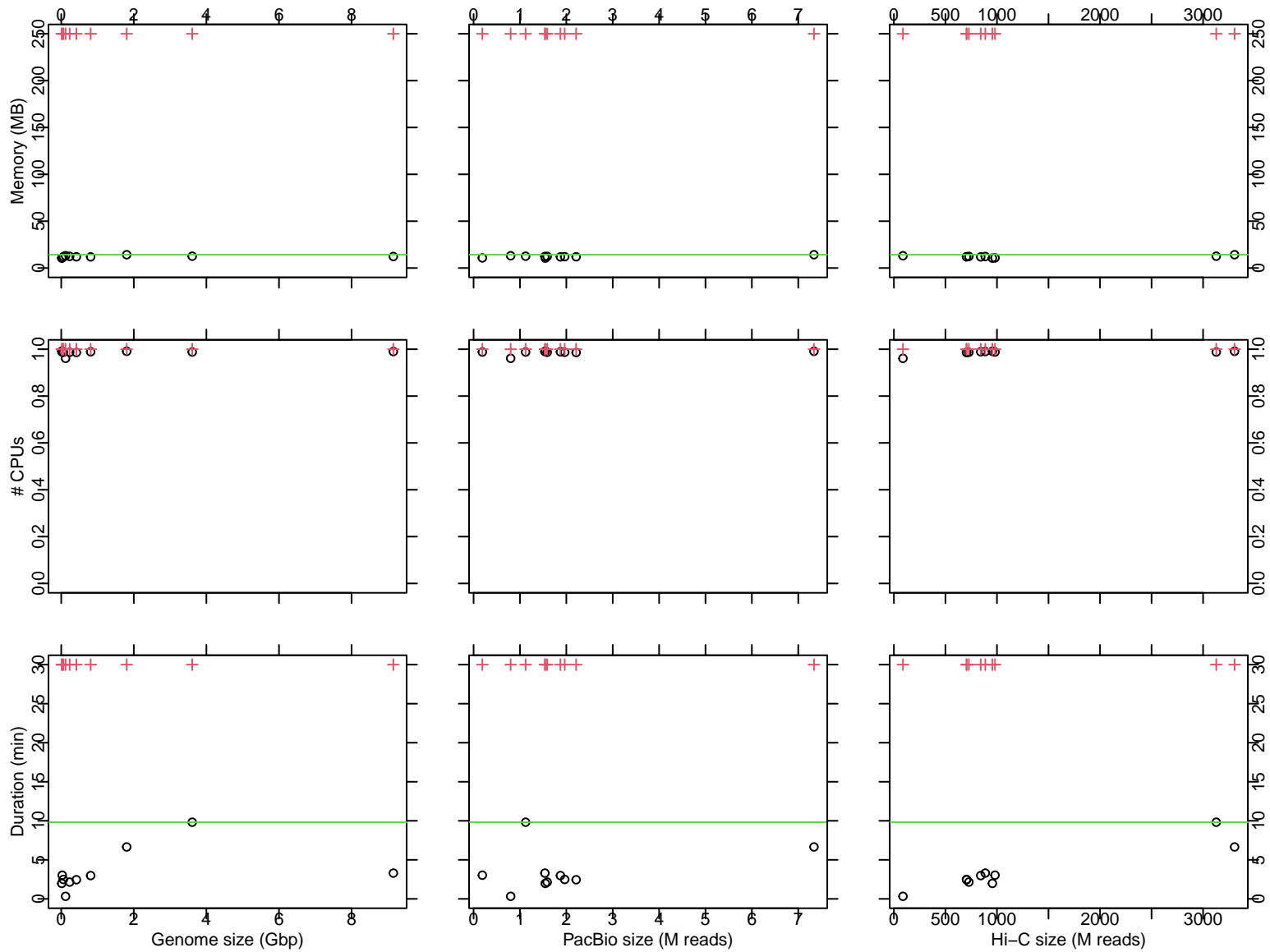
# ALIGN\_HIC:BWAMEM2\_MEM



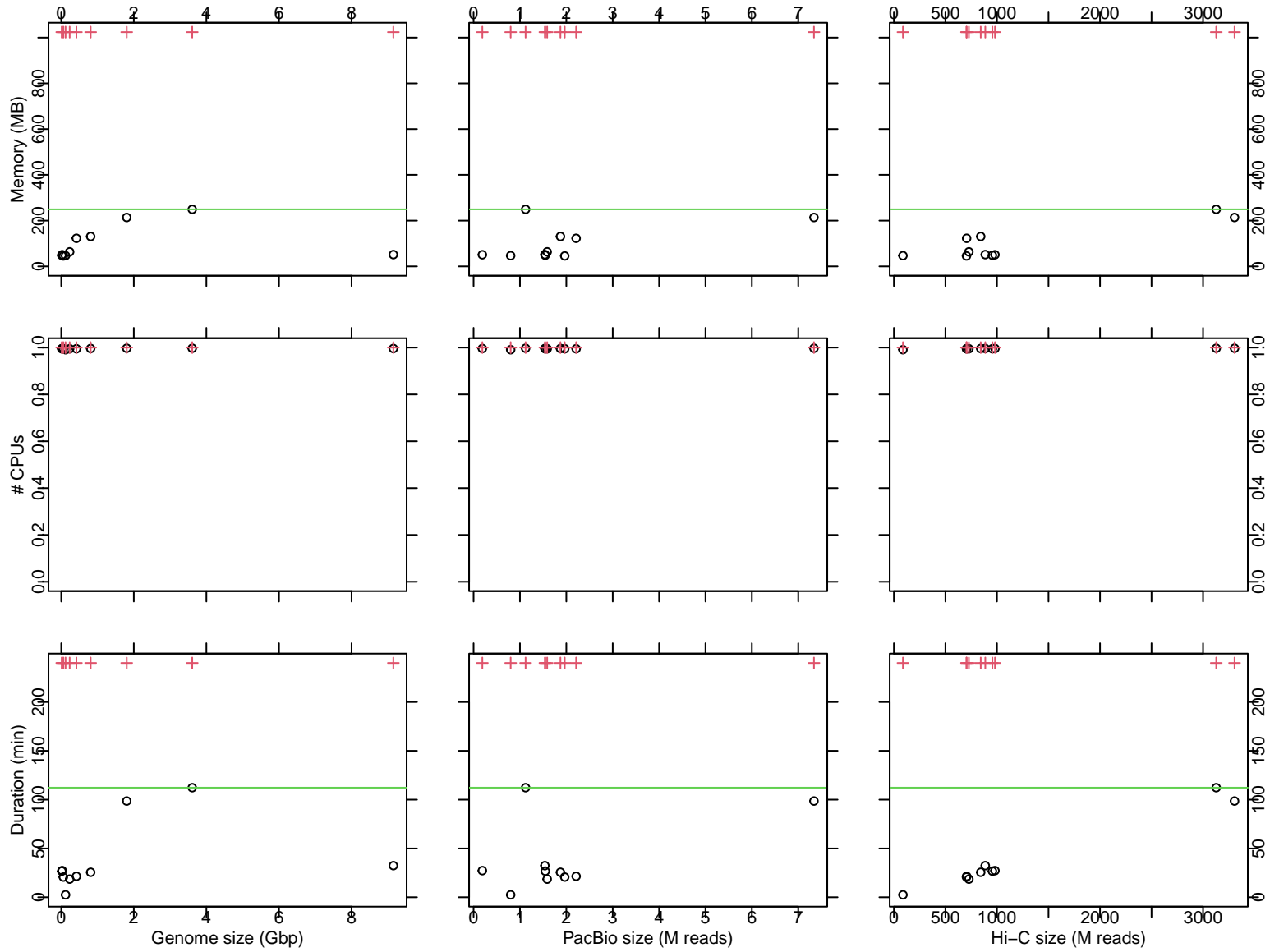
# ALIGN\_HIC:MARKDUP\_STATS:CONVERT\_STATS:SAMTOOLS\_FLAGSTAT



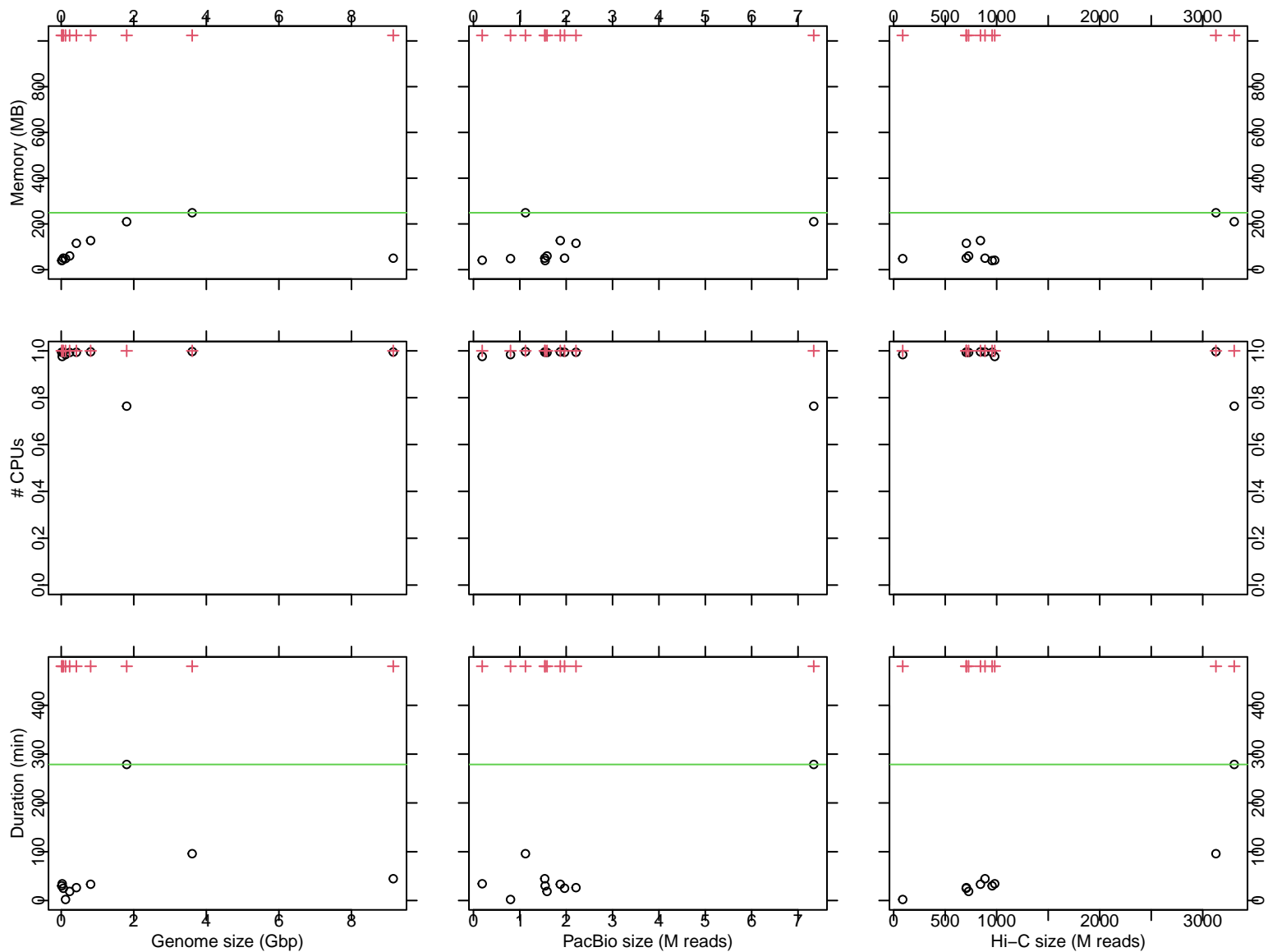
# ALIGN\_HIC:MARKDUP\_STATS:CONVERT\_STATS:SAMTOOLS\_IDXSTATS



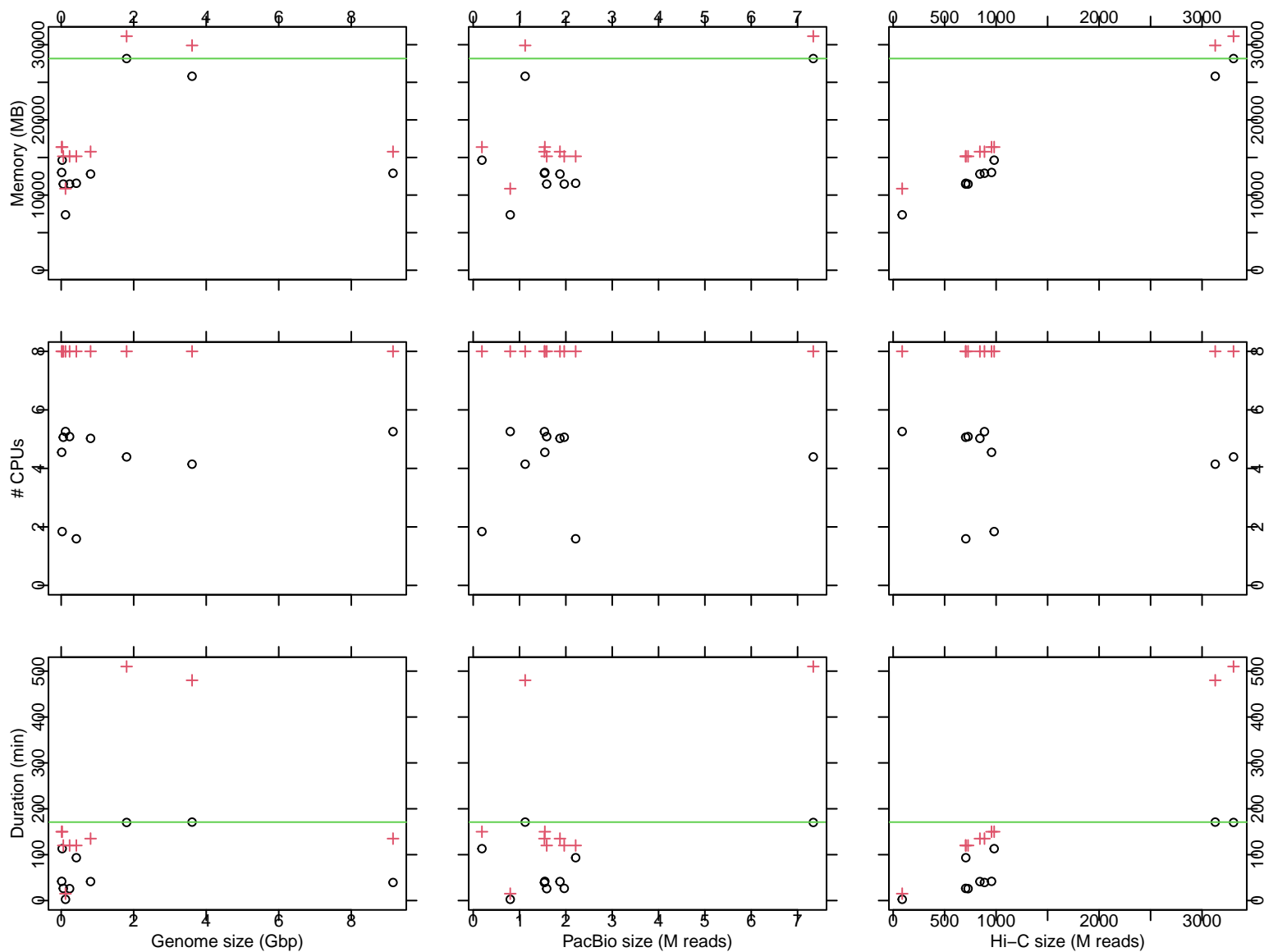
# ALIGN\_HIC:MARKDUP\_STATS:CONVERT\_STATS:SAMTOOLS\_STATS



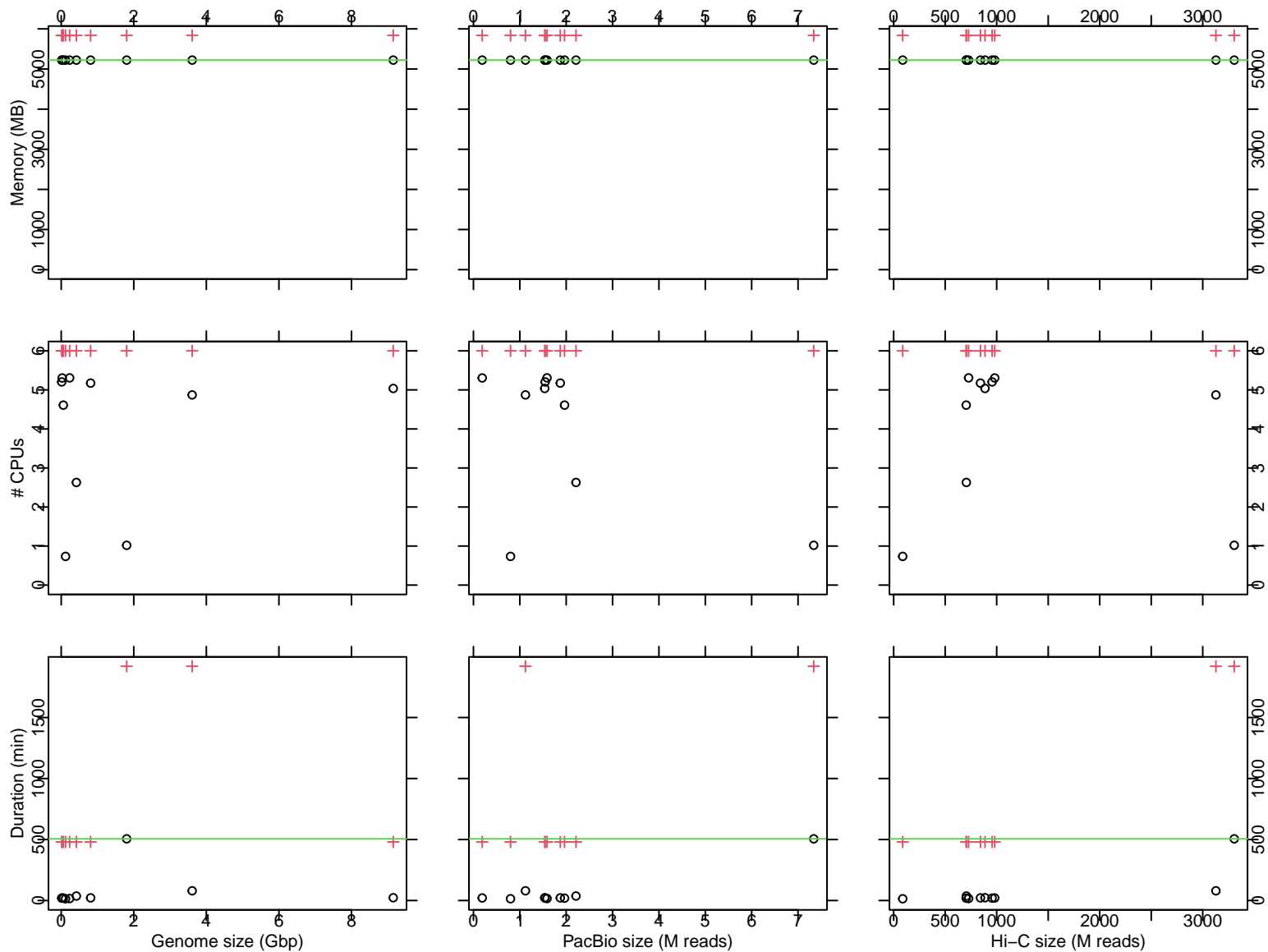
# ALIGN\_HIC:MARKDUP\_STATS:CONVERT\_STATS:SAMTOOLS\_VIEW



# ALIGN\_HIC:MARKDUP\_STATS:SAMTOOLS\_SORMADUP

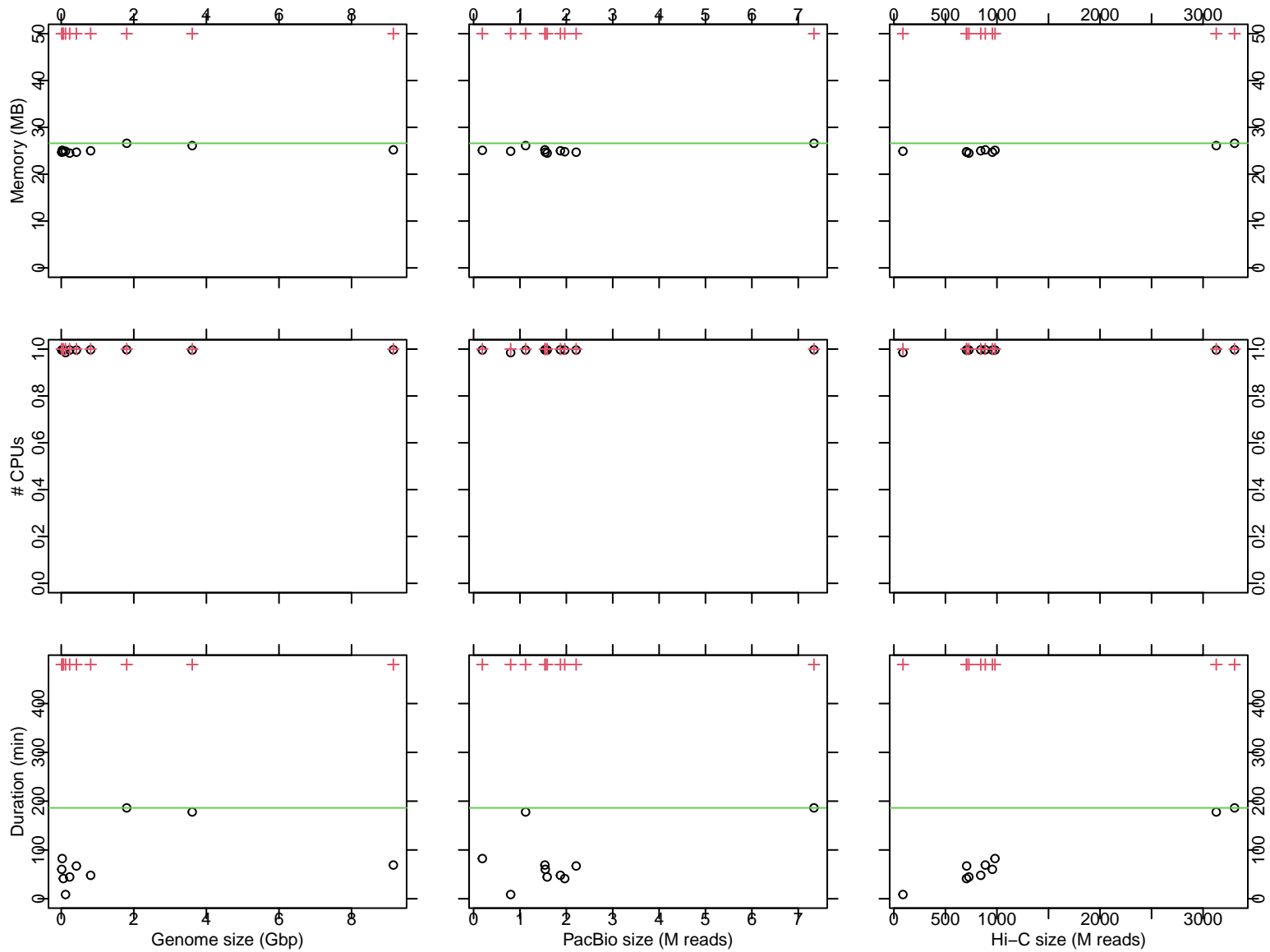


# ALIGN\_HIC:MARKDUP\_STATS:SAMTOOLS\_SORT

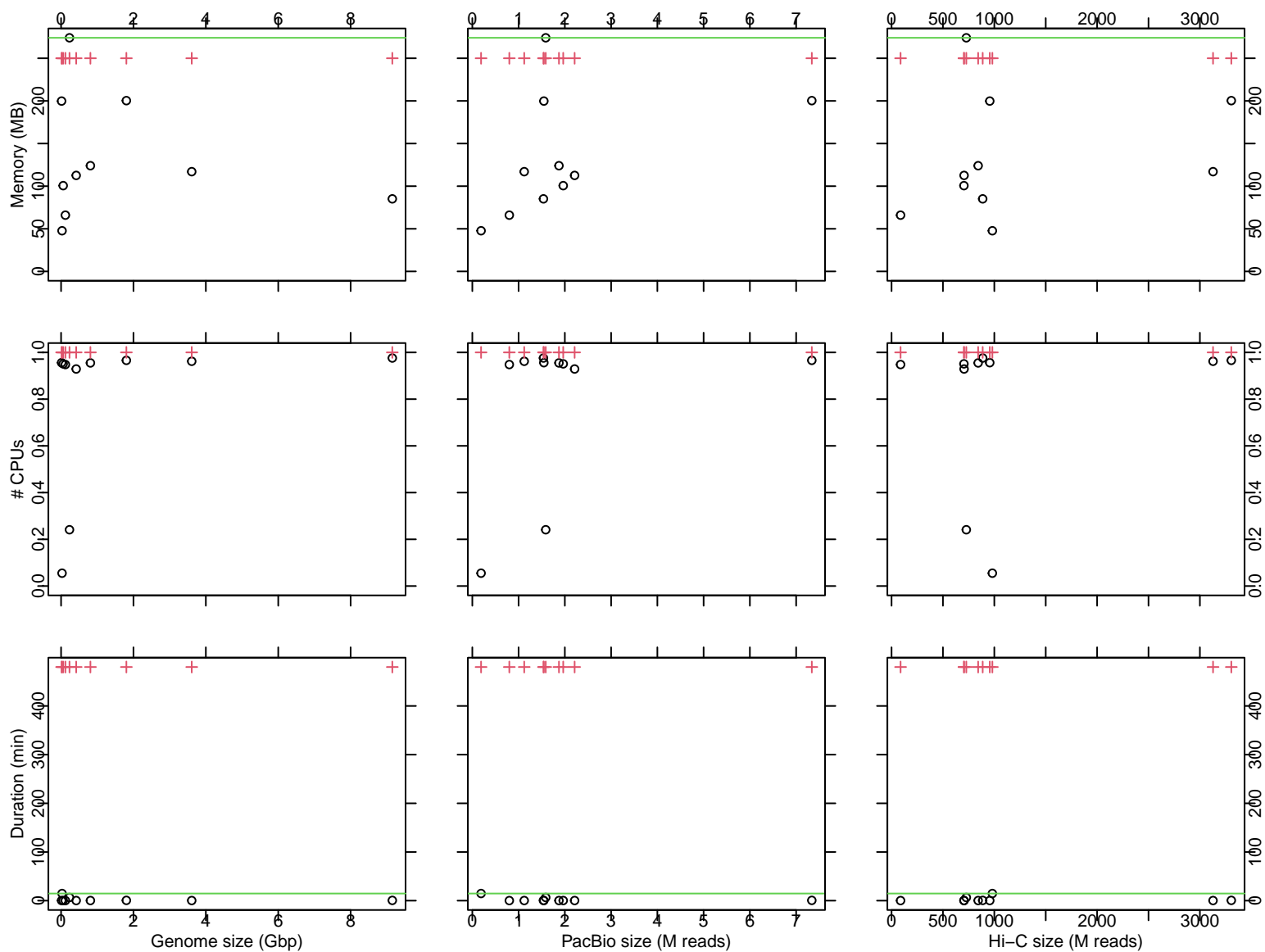




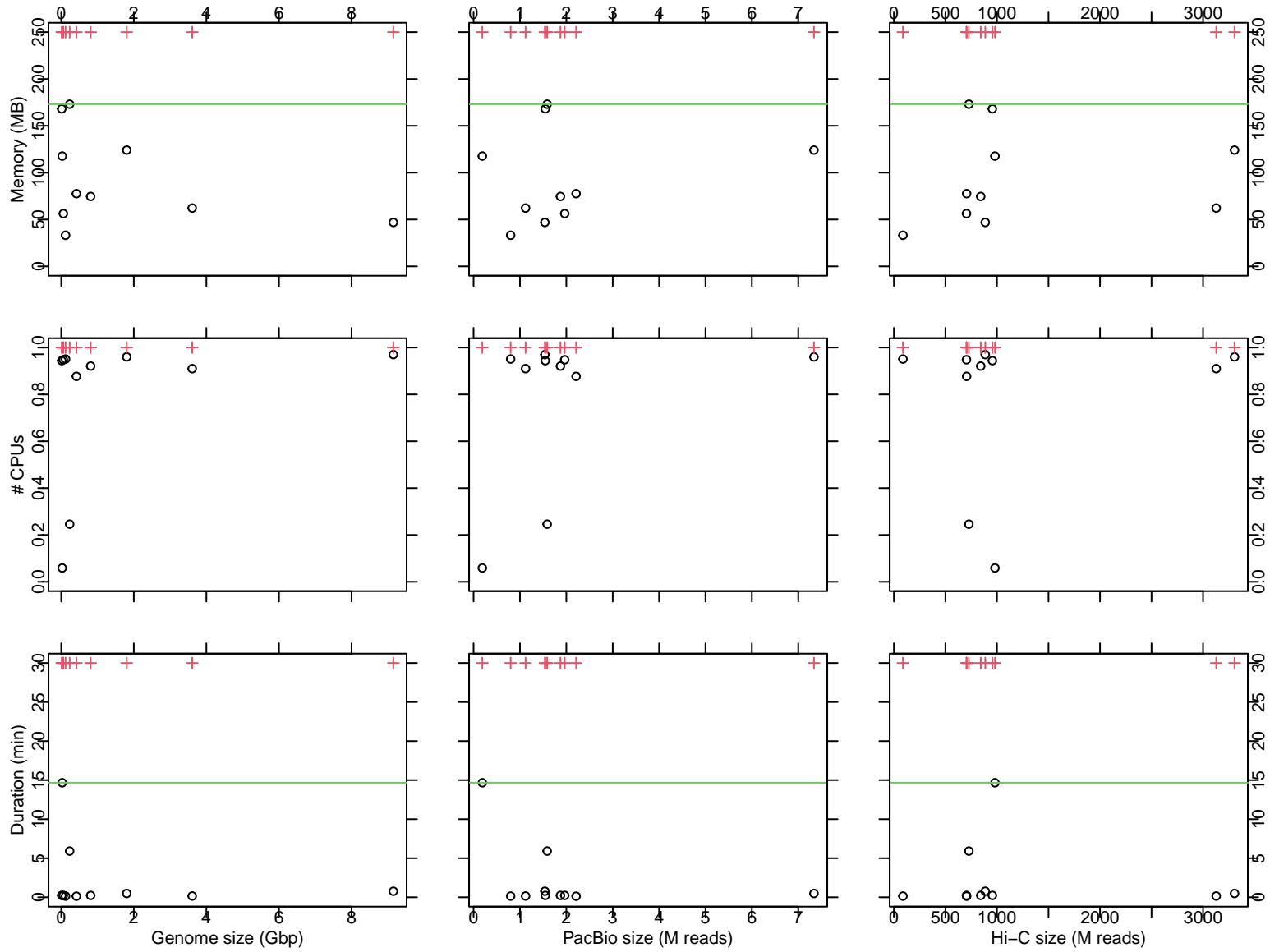
# ALIGN\_HIC:SAMTOOLS\_FASTQ



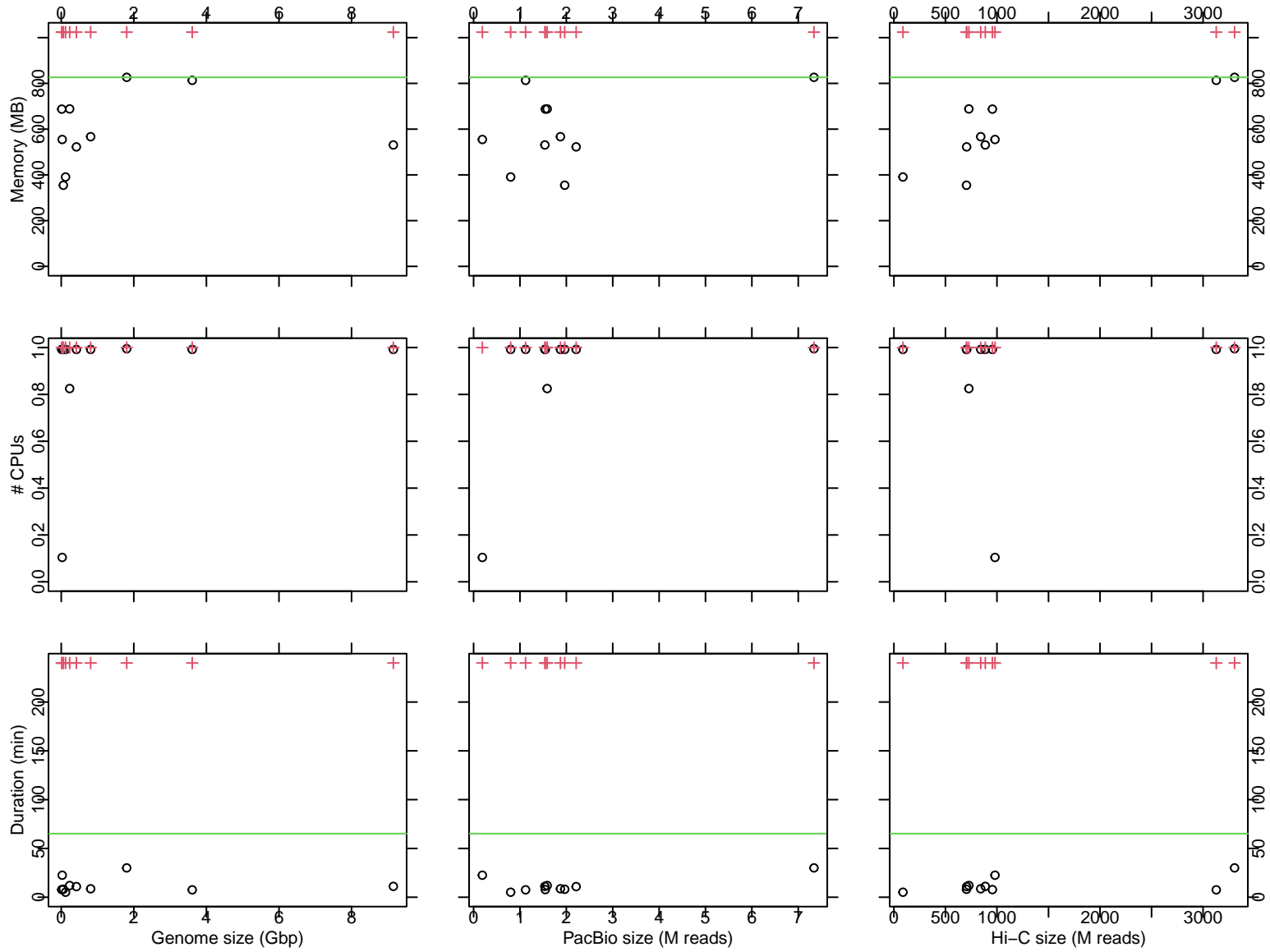
# ALIGN\_HIFI:CONVERT\_STATS:SAMTOOLS\_FLAGSTAT



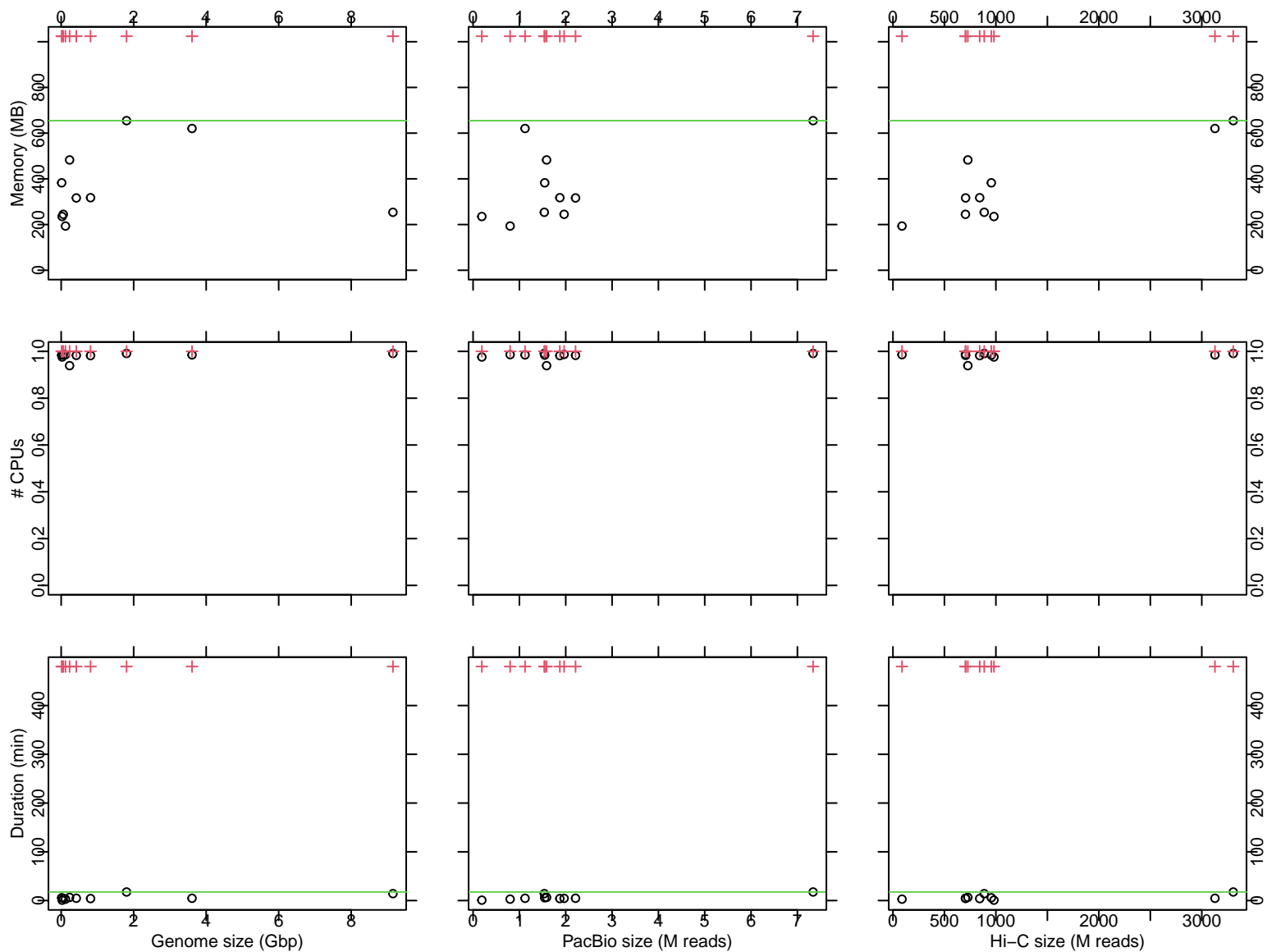
# ALIGN\_HIFI:CONVERT\_STATS:SAMTOOLS\_IDXSTATS



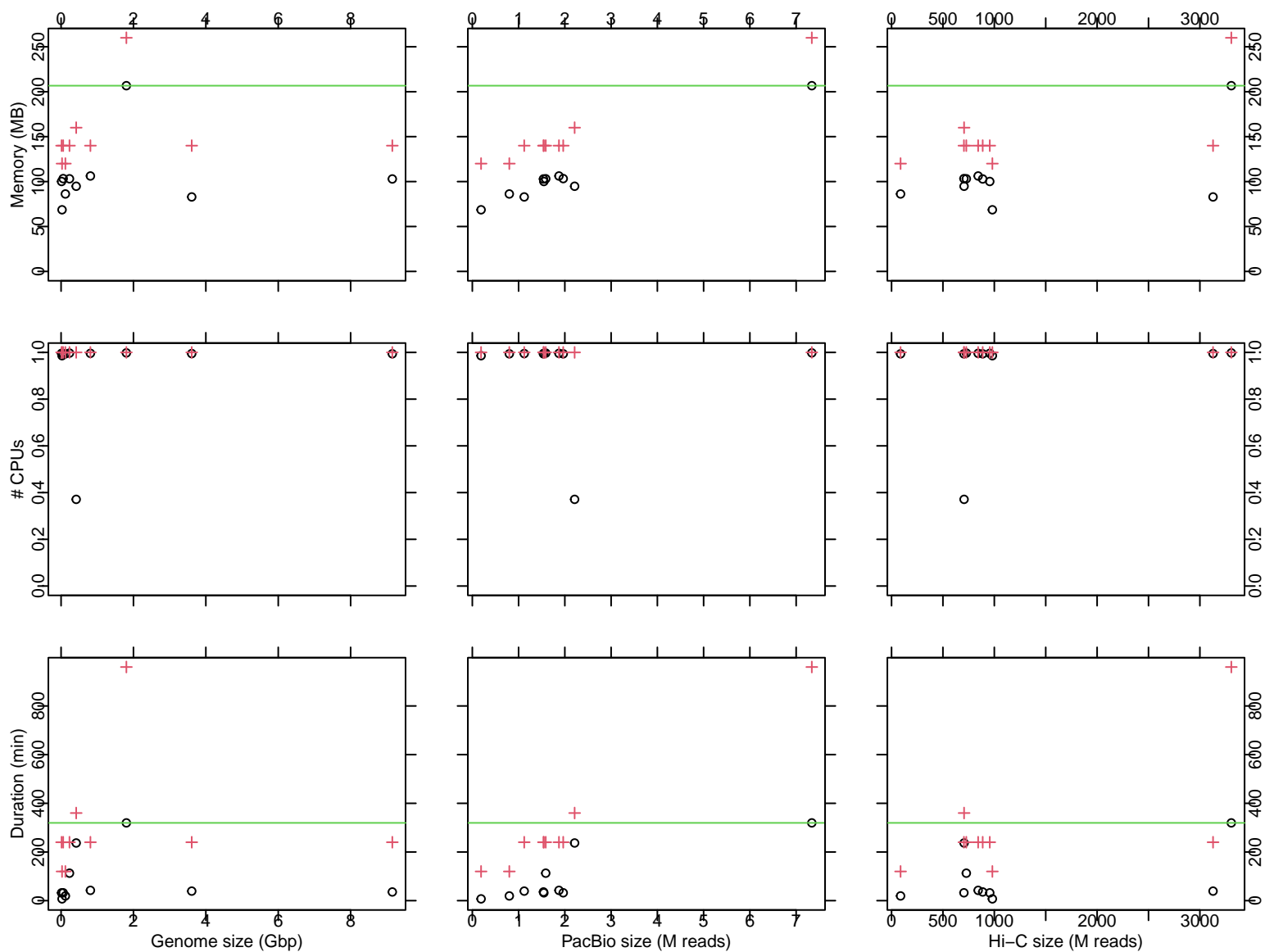
# ALIGN\_HIFI:CONVERT\_STATS:SAMTOOLS\_STATS



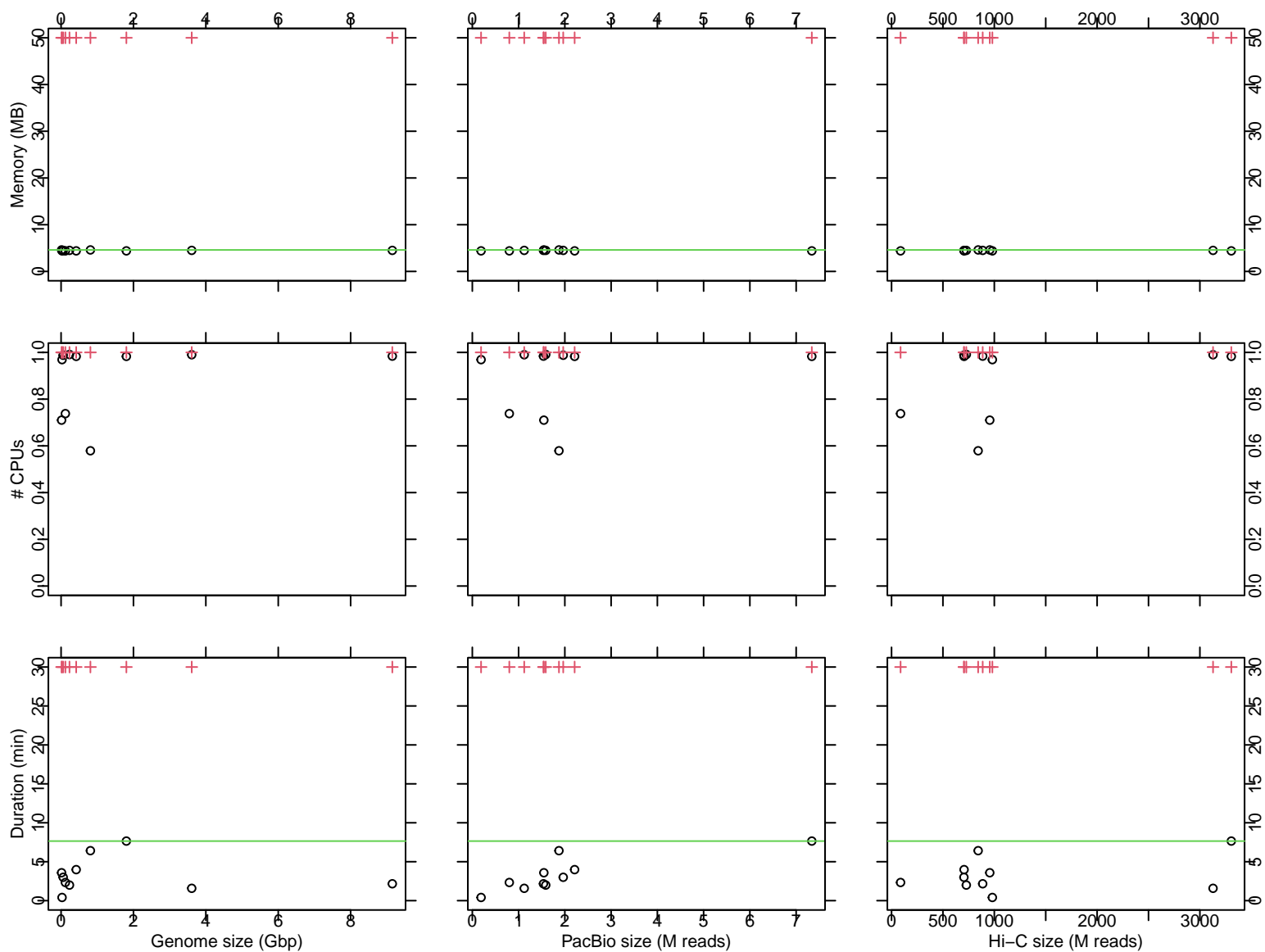
# ALIGN\_HIFI:CONVERT\_STATS:SAMTOOLS\_VIEW



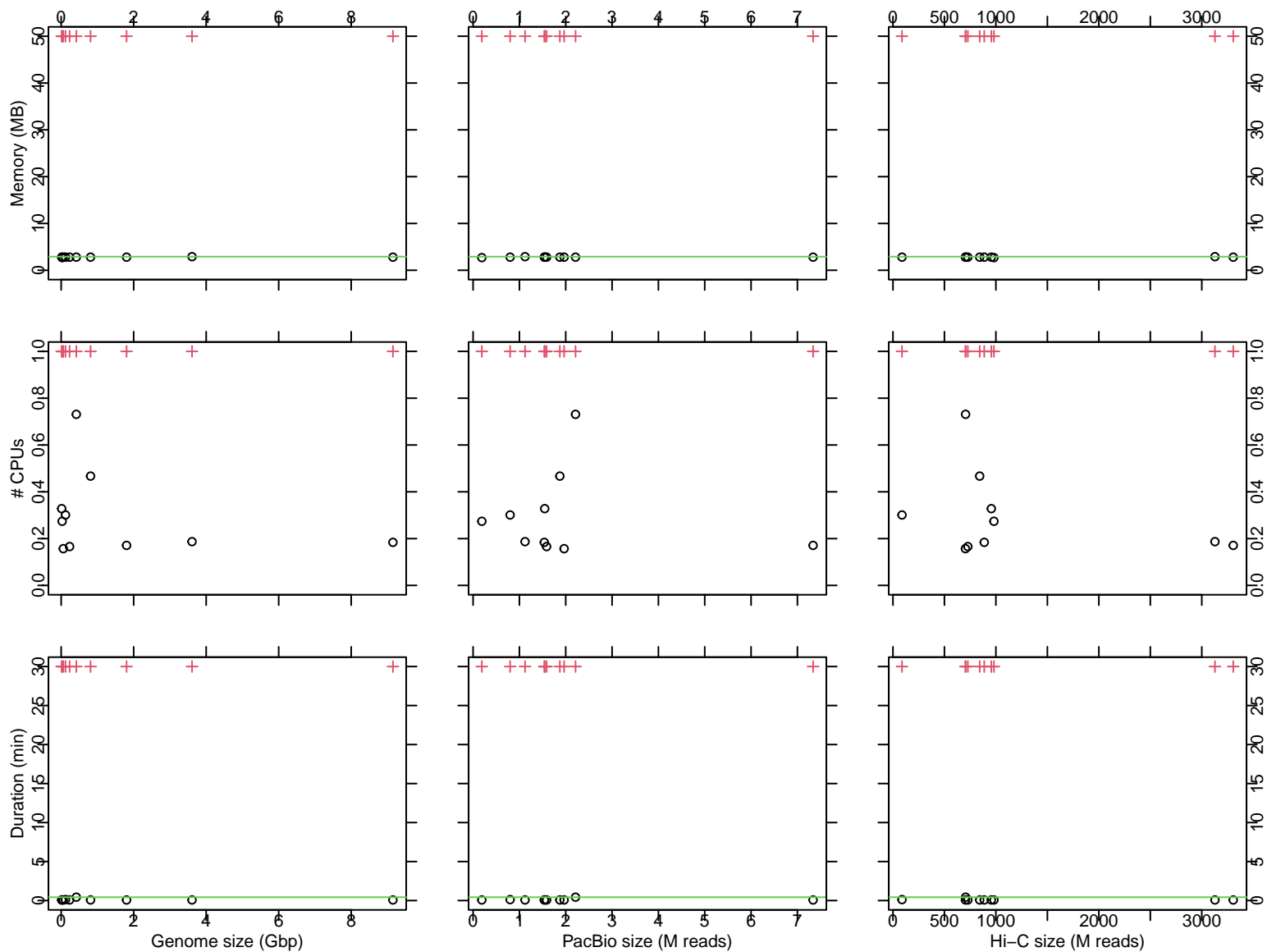
# ALIGN\_HIFI:FILTER\_PACBIO:BLAST\_BLASTN



# ALIGN\_HIFI:FILTER\_PACBIO:GUNZIP

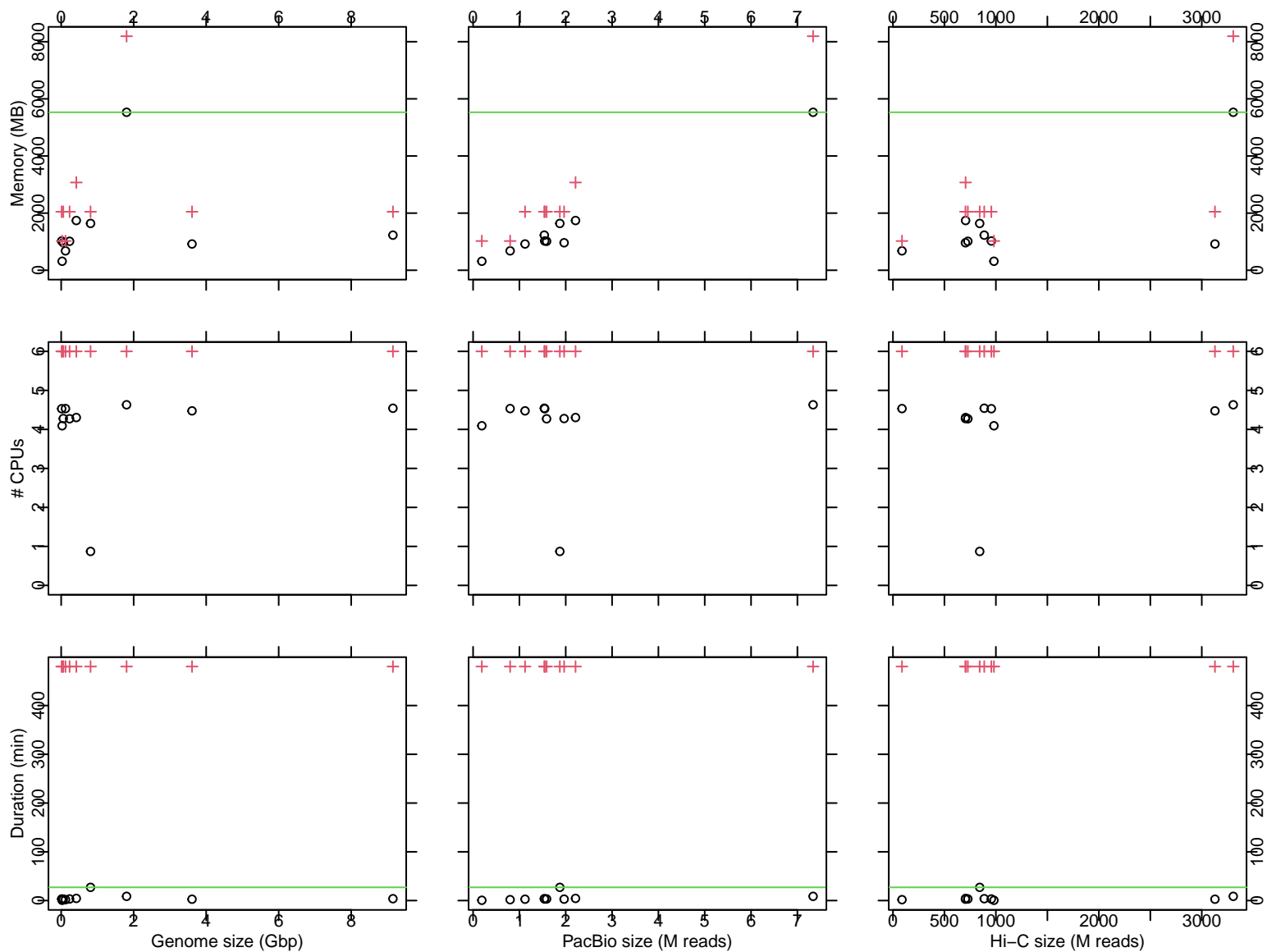


# ALIGN\_HIFI:FILTER\_PACBIO:PACBIO\_FILTER

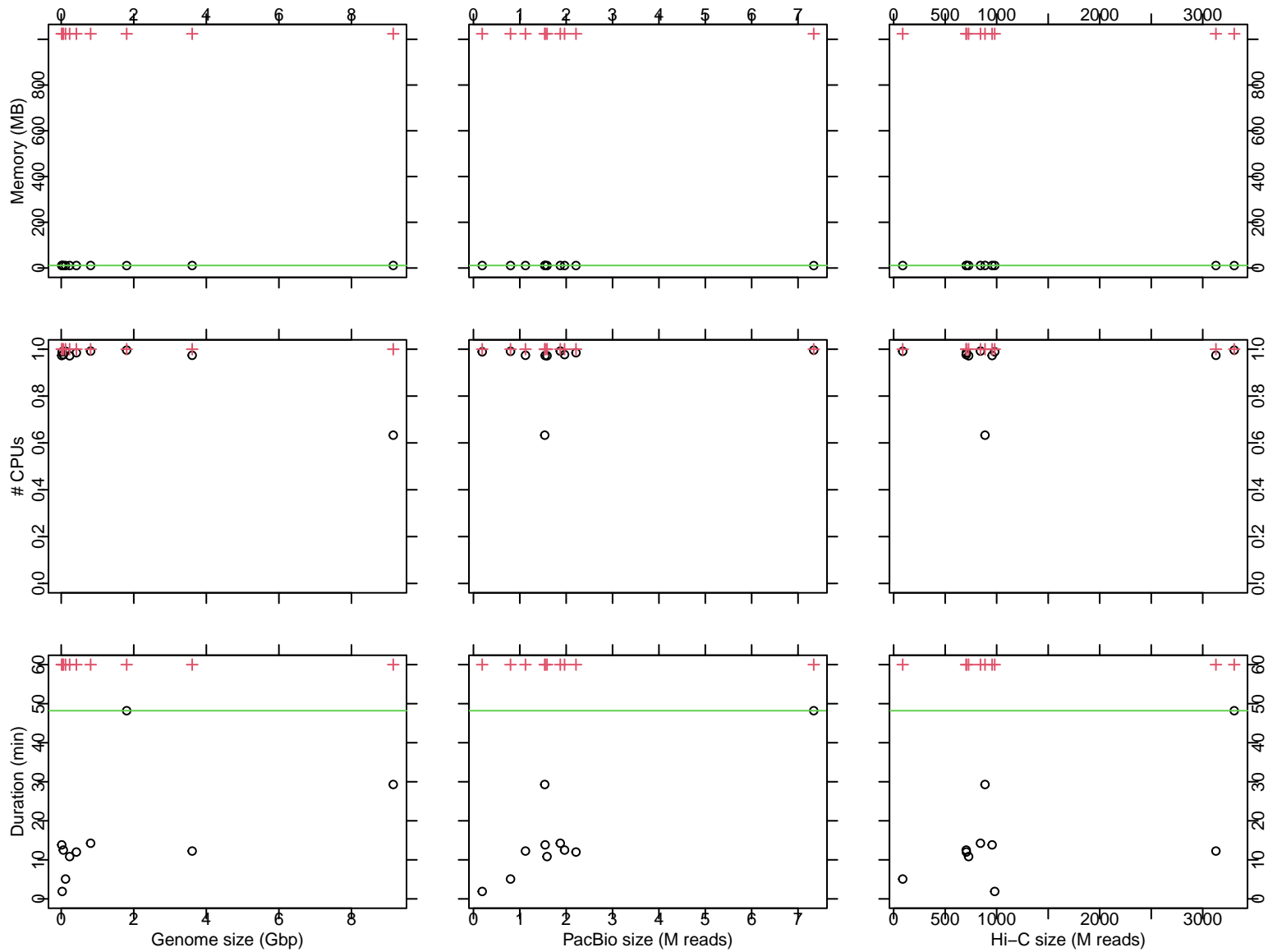




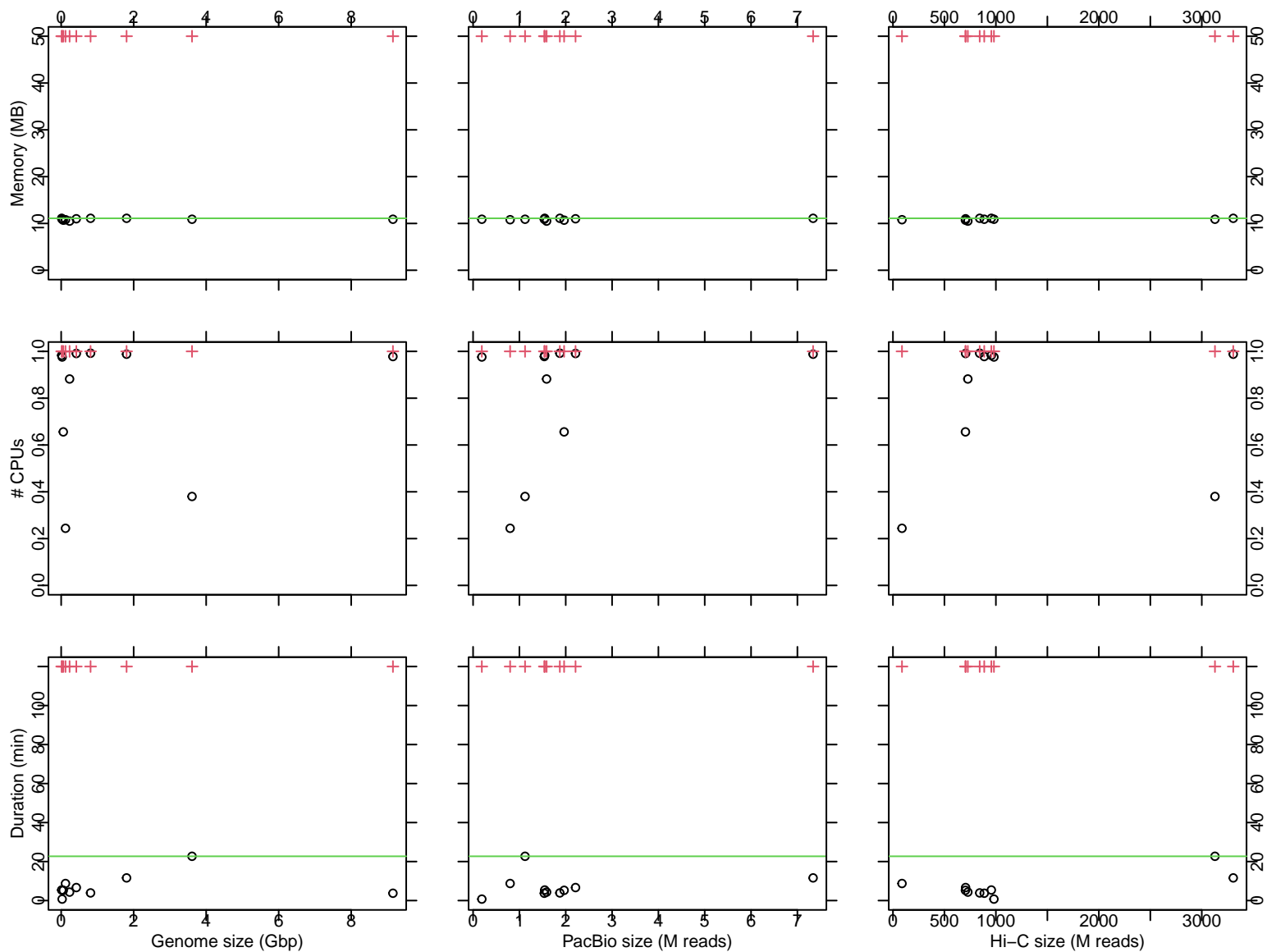
# ALIGN\_HIFI:FILTER\_PACBIO:SAMTOOLS\_COLLATE



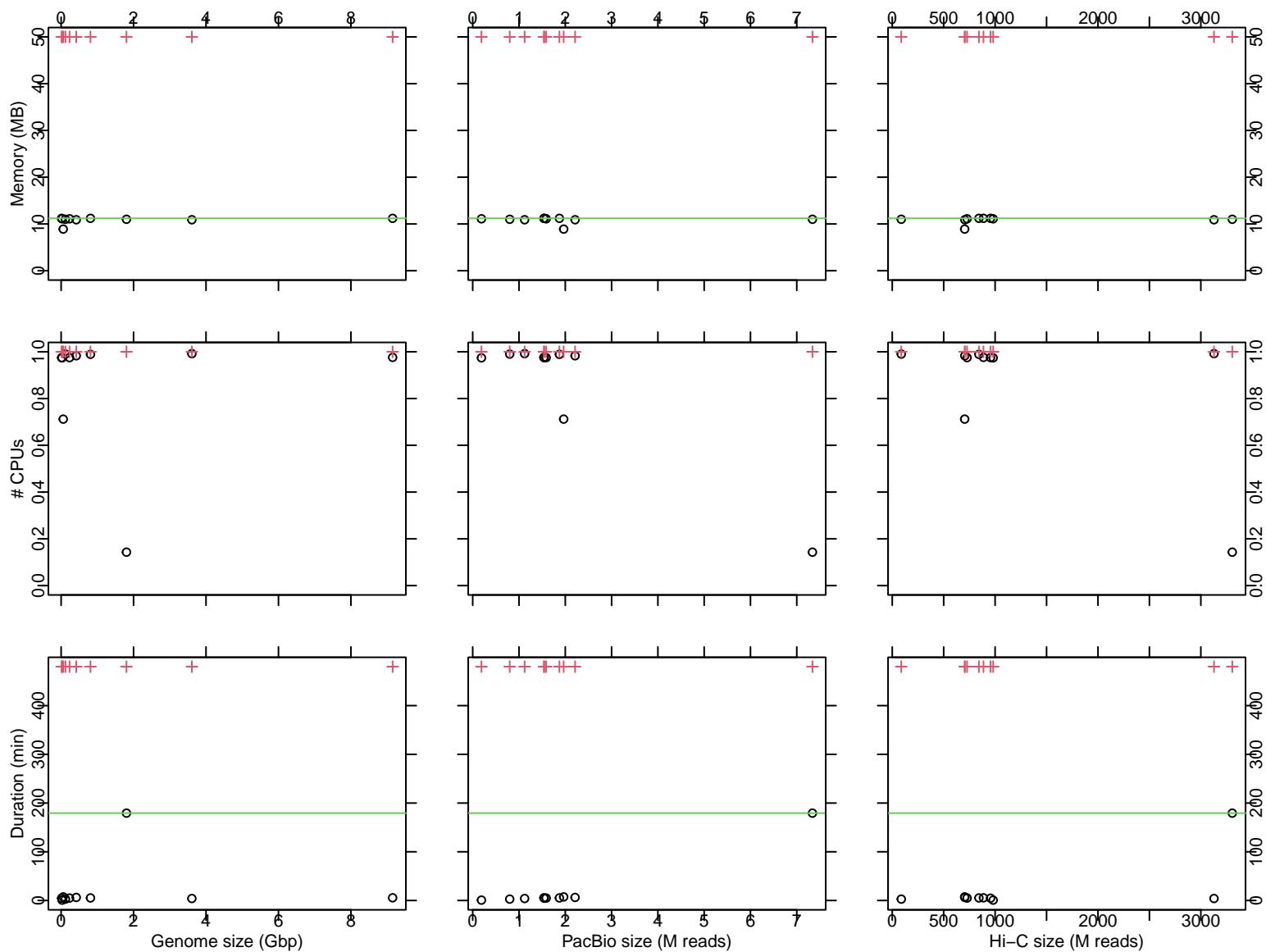
# ALIGN\_HIFI:FILTER\_PACBIO:SAMTOOLS\_CONVERT



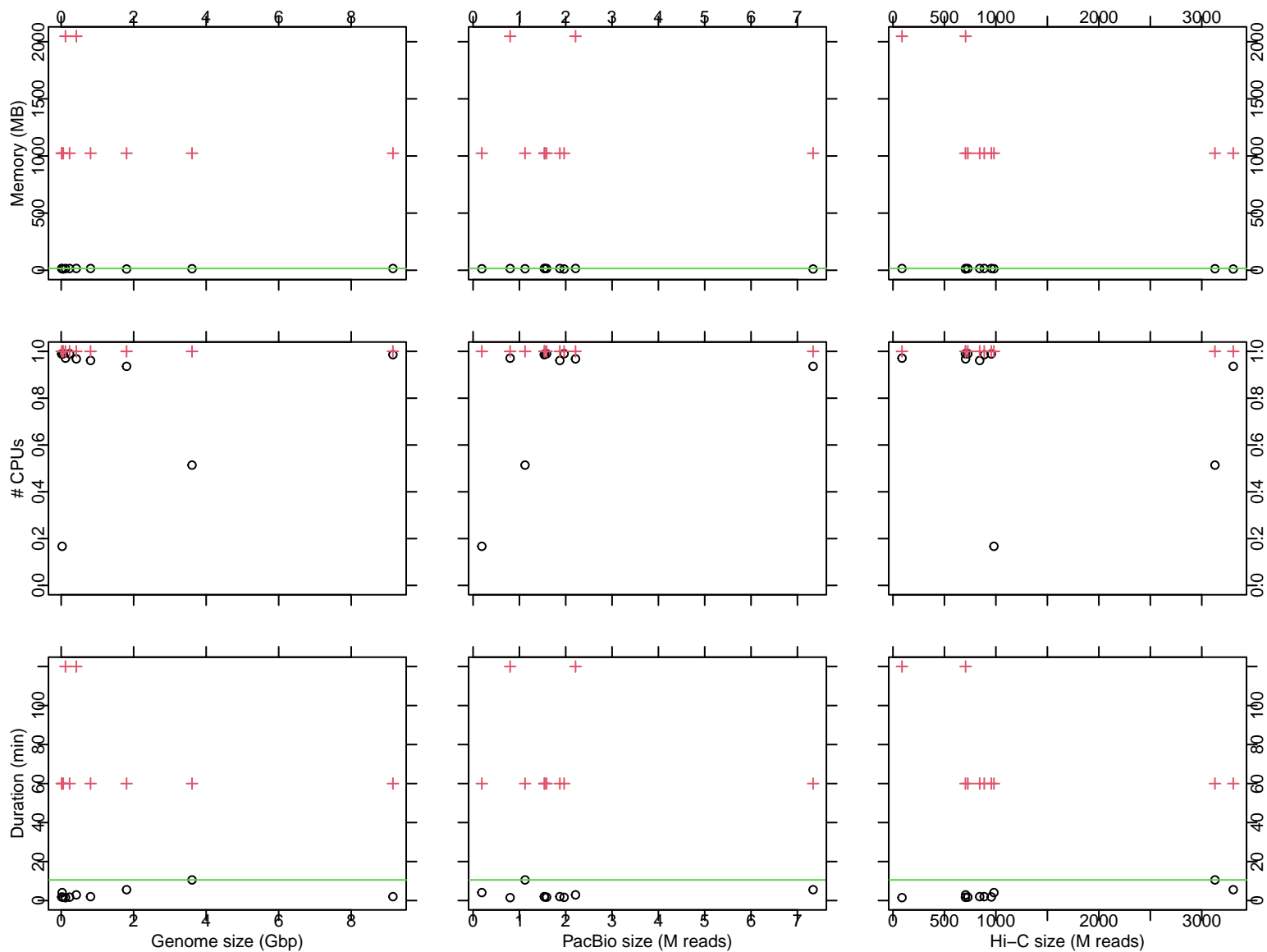
# ALIGN\_HIFI:FILTER\_PACBIO:SAMTOOLS\_FASTA



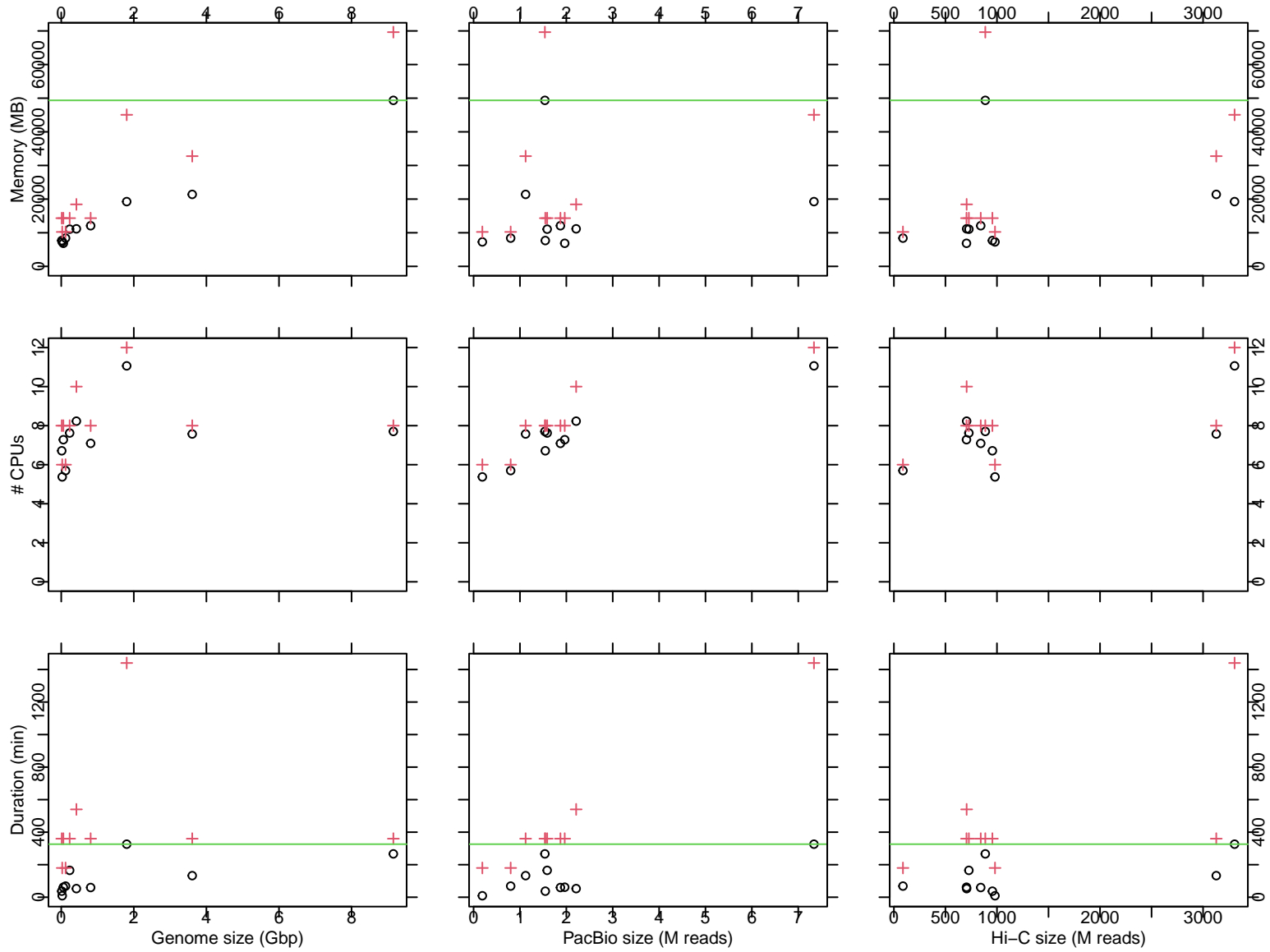
# ALIGN\_HIFI:FILTER\_PACBIO:SAMTOOLS\_FASTQ



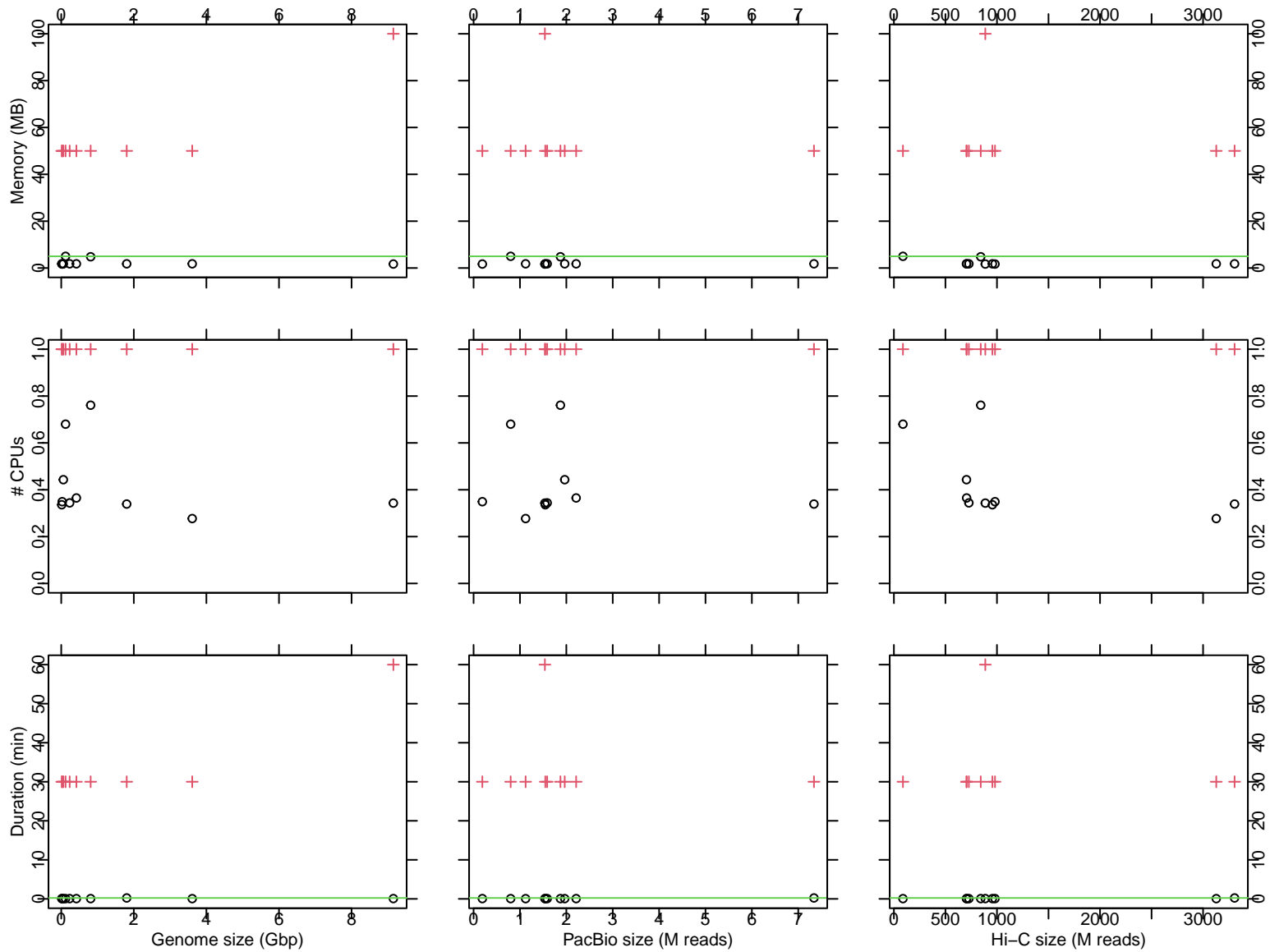
# ALIGN\_HIFI:FILTER\_PACBIO:SAMTOOLS\_FILTER



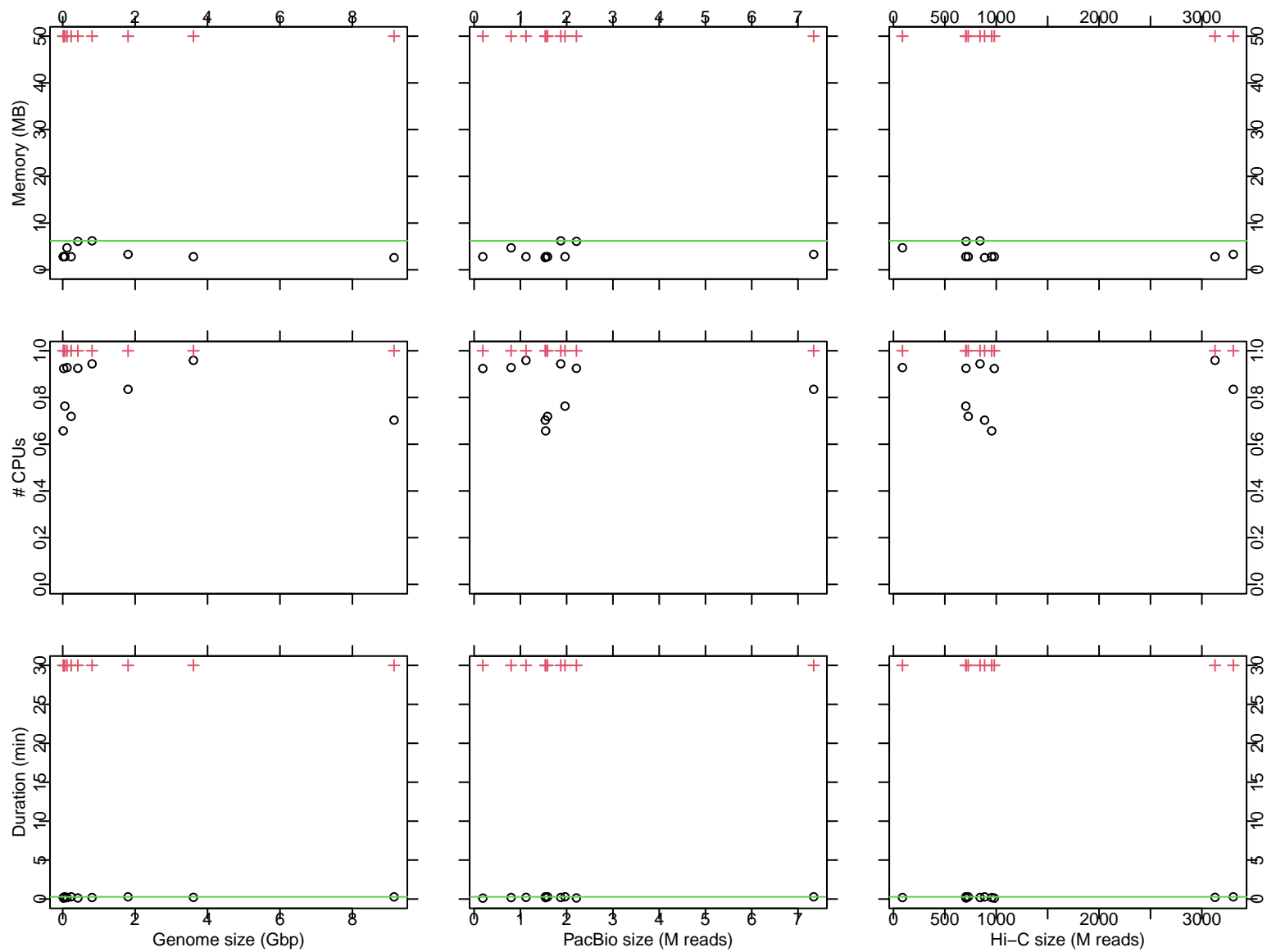
# ALIGN\_HIFI:MINIMAP2\_ALIGN



# CUSTOM\_DUMPSOFTWAREVERSIONS

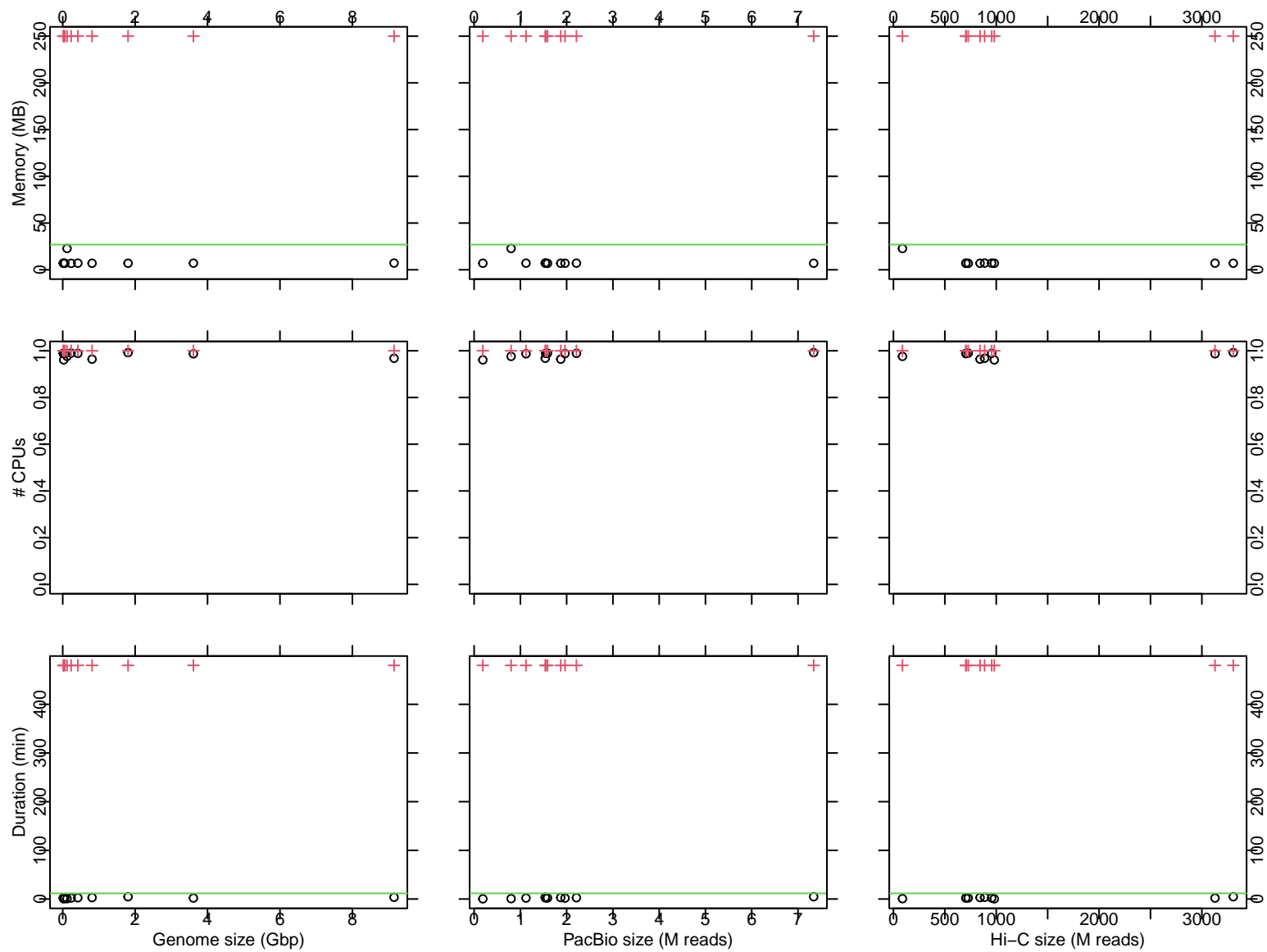


# INPUT\_CHECK:SAMPLESHEET\_CHECK

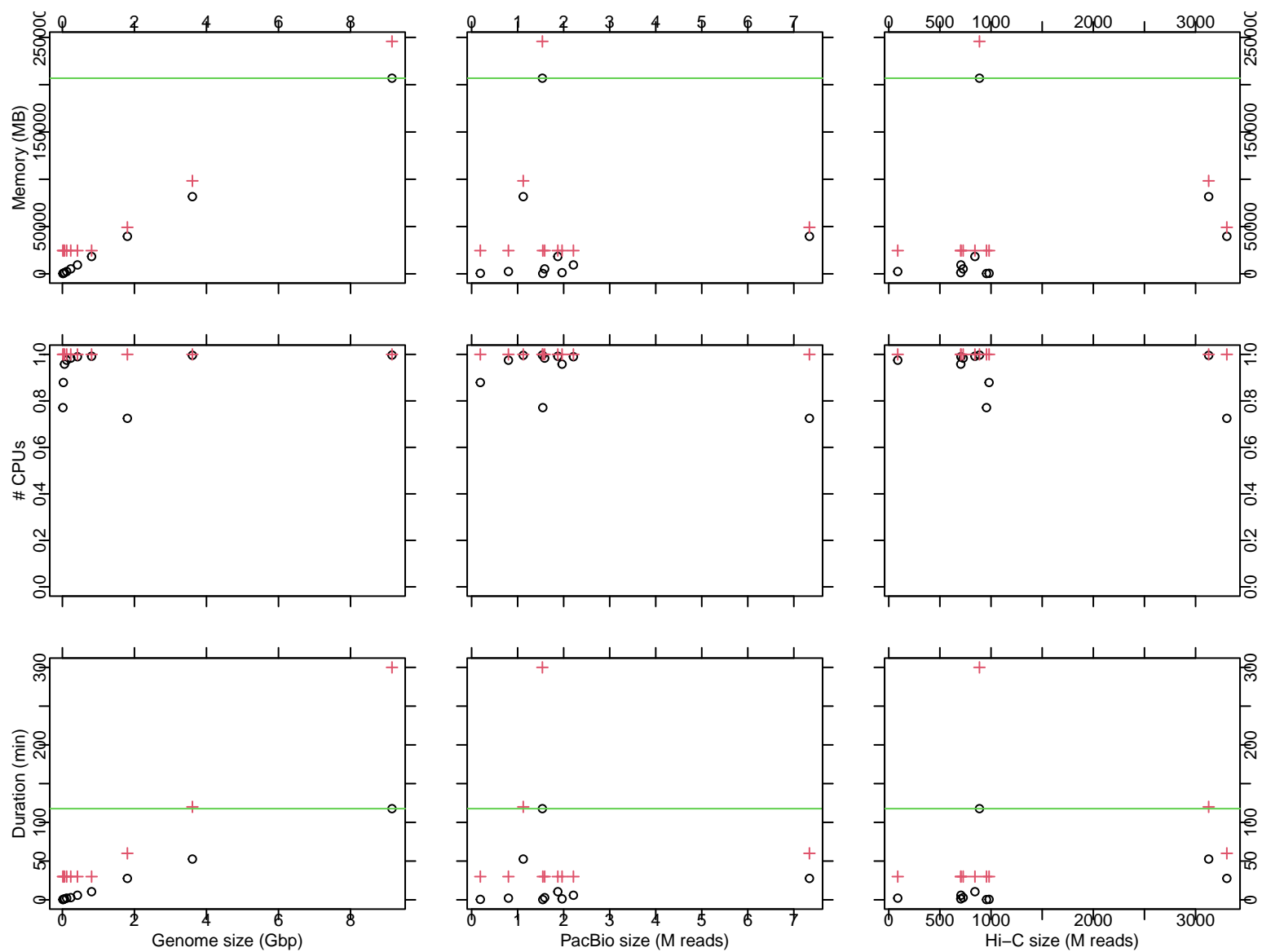




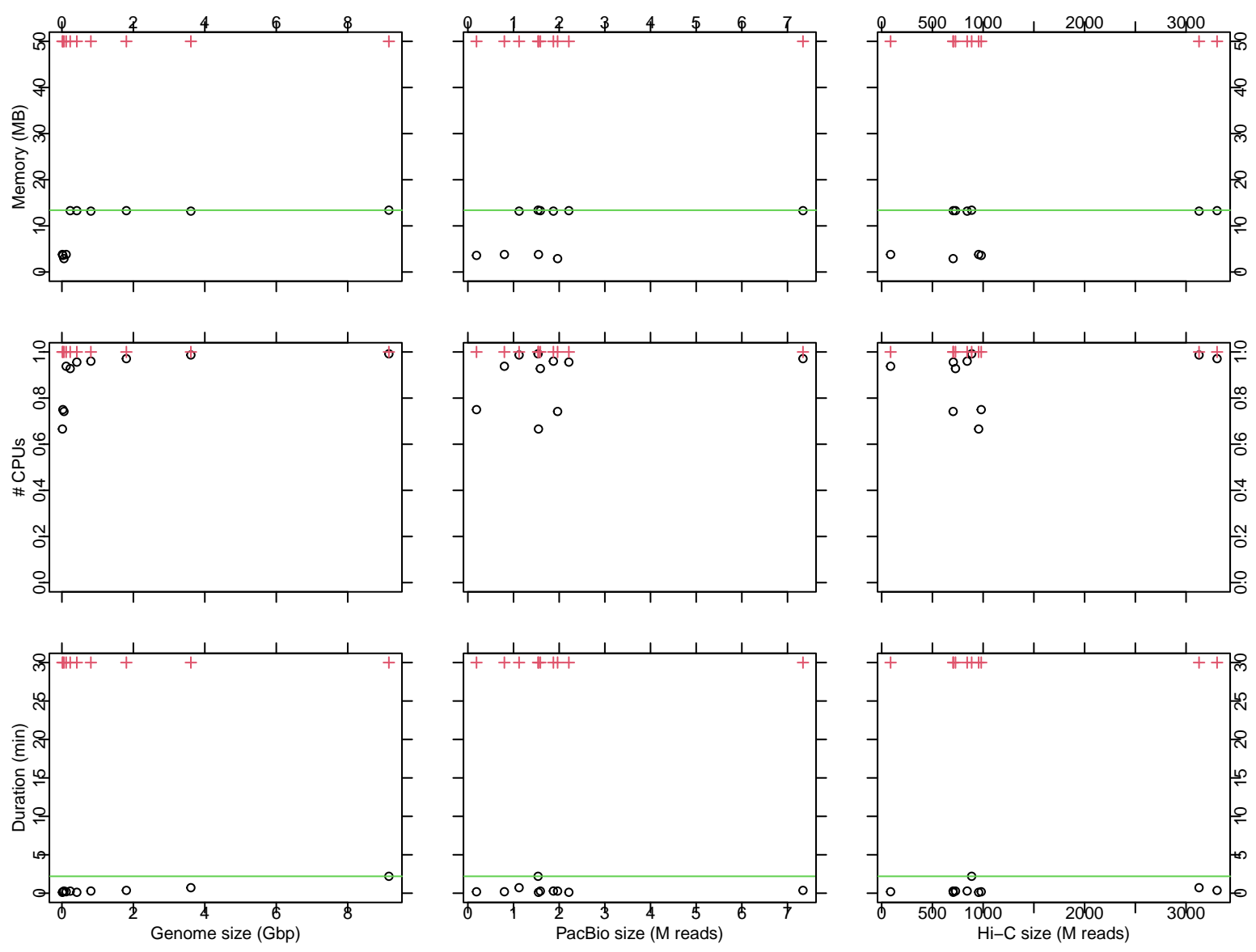
# INPUT\_CHECK:SAMTOOLS\_FLAGSTAT



# PREPARE\_GENOME:BWAMEM2\_INDEX



# PREPARE\_GENOME:UNMASK



# UNTAR

