



Compression Performance Measurement ■ Relative Compression Ratio (Logzip to LogBlock) ■ Relative Compression Speed (Logzip to LogBlock)

Fig. 11: The relative compression ratio and relative compression speed using *Logzip* to *LogBlock* on different block sizes. In each sub-figure, the x axis shows the block sizes (from 16KB to the size of the log file or 32MB) and the y axis refers to the compression performance value (in log-scale) with different compressors. The black box indicates the sizes at which *Logzip* begins to statistically outperform *LogBlock* in terms of the compression ratio. The horizontal red line at zero ( $\log_2 1$ ) implies the same relative compression ratio or speed achieved by two preprocessing approaches.