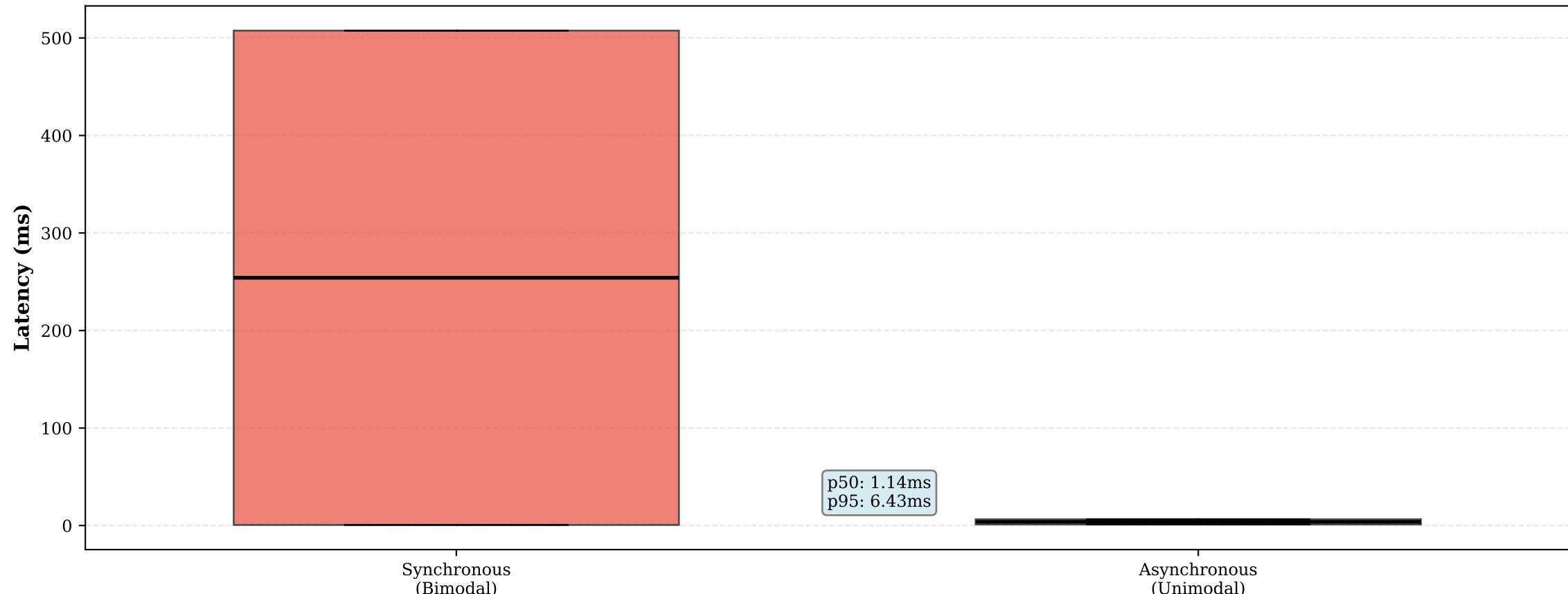


p50: 0.67ms
p95: 507.53ms

Figure 8: Latency Distribution Comparison - Medium Load
(Bimodal vs Unimodal Distribution)



*Synchronous shows wide spread ($p50=0.67\text{ms}$, $p95=507\text{ms}$) indicating bimodal distribution.
Asynchronous shows tight clustering ($p50=1.14\text{ms}$, $p95=6.43\text{ms}$) indicating consistent performance.*