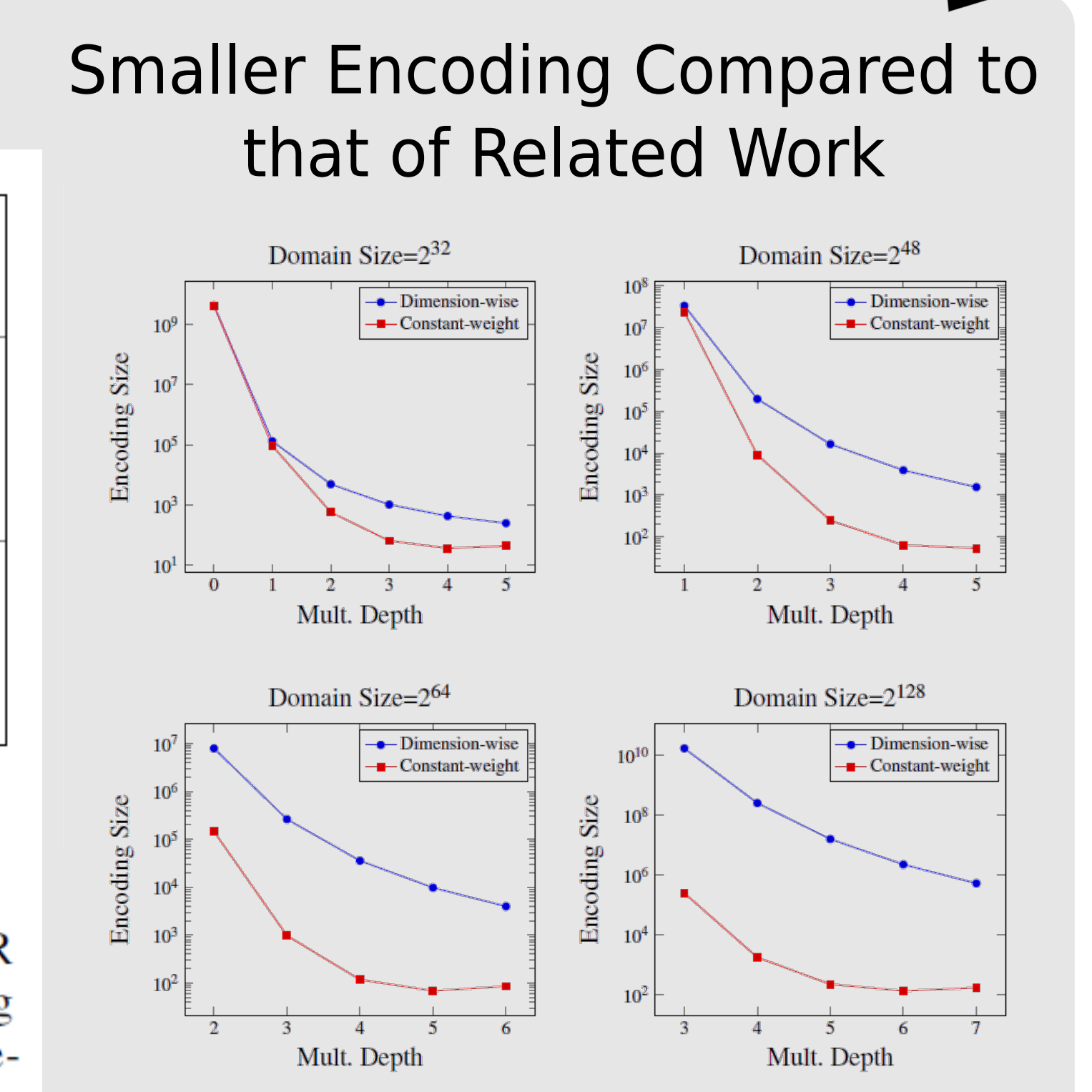
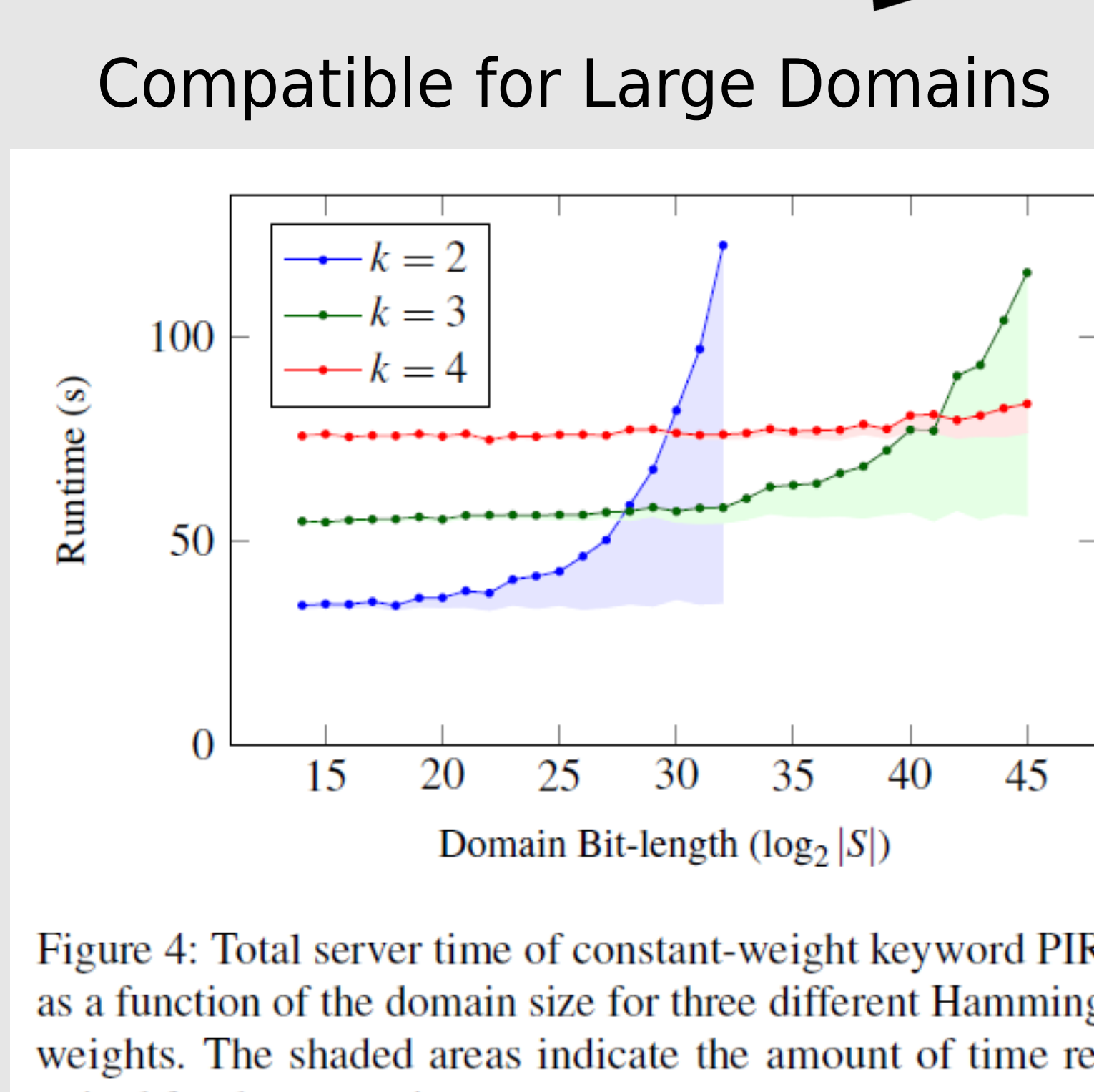
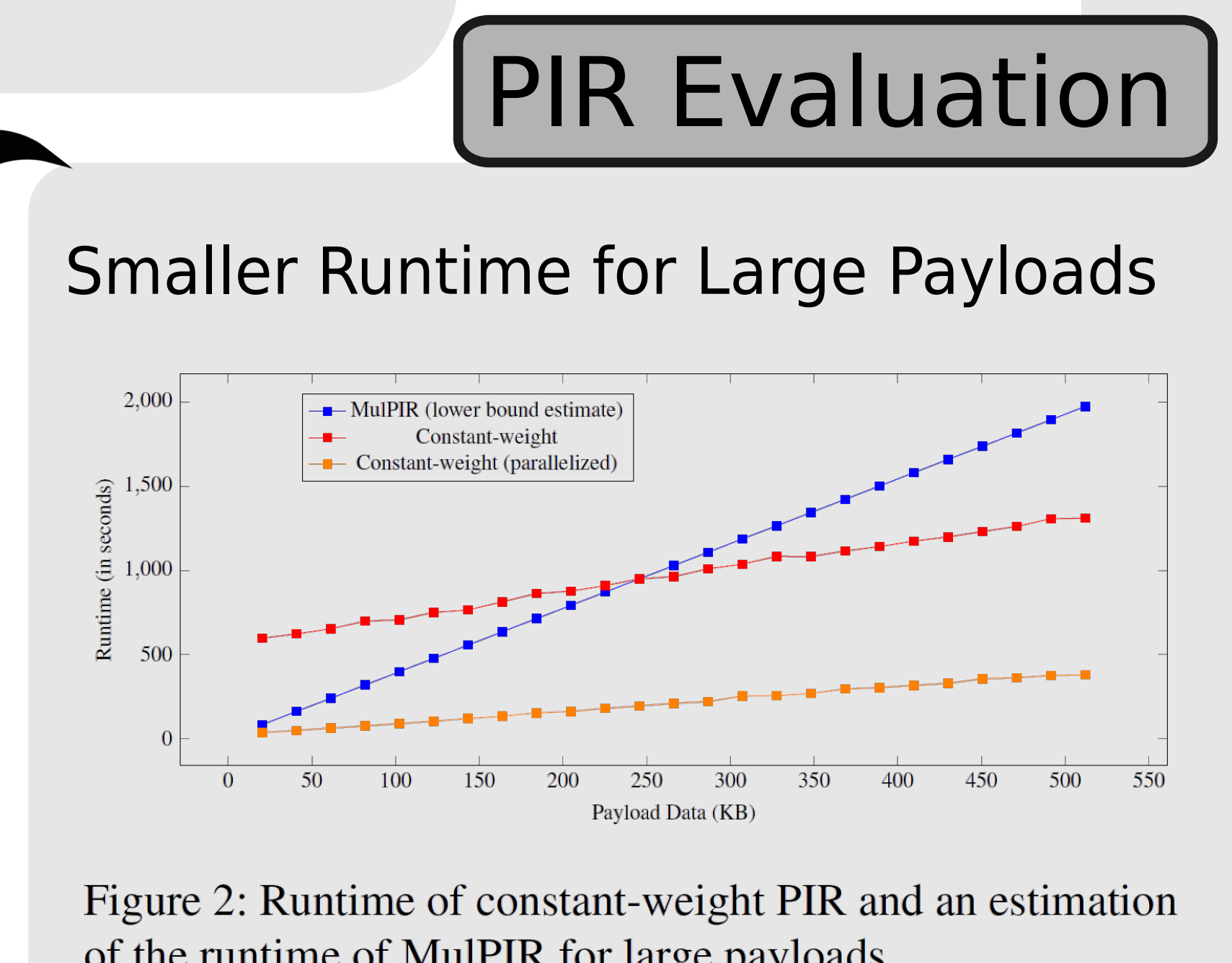


**Conclusion**

**First Practical PIR Protocol using Equality Operators**

**Better Runtimes for Large Payloads**

**Single-round Keyword PIR Protocol**



**Conclusion**

**Constant-weight Operators are Faster and More Parallelizable**

Figure 1: Speedup using parallelization when evaluating arithmetic equality operators

Figure 4: Total server time of constant-weight keyword PIR as a function of the domain size for three different Hamming weights. The shaded areas indicate the amount of time required for the expansion step.

Figure 3: Encoding size as a function of multiplicative depth