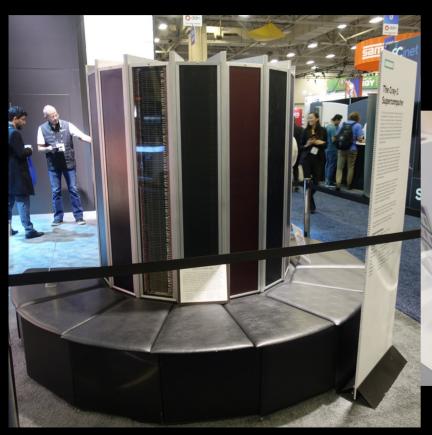
Cool Stuff @







Cool Stuff @







Parallel Bit Pattern (PBP) Computing

A new, quantum-inspired, model for parallel computation:

- An alternative to quantum
- Efficient bit-serial SIMD

The potential to reduce power per computation by orders of magnitude without exotic hardware









Array-of-Bits Representation

 \overline{E} -way entangled superposition uses 2^E bits:

- 2-way result is 25% 2, 50% 3, and 25% 5
- AoB bit patterns have very low entropy...







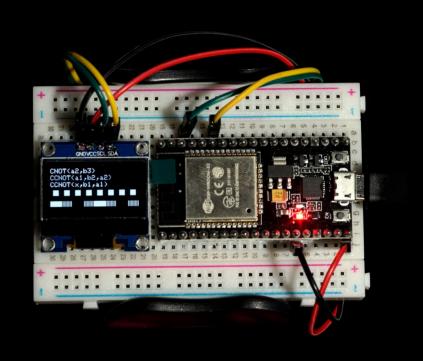


PBP as an Alternative to Quantum

Don't use Array-of-Bits (AoB); operate on AoB chunk patterns

- Symbolic optimization at gate level
- Exponential space+time reduction

Display shows 3 lines of scrolling code trace, bit-per-pixel AoB map of most recent **pbit** and SHOW **pbit**









PBP as Efficient Bit-Serial SIMD

Each entanglement channel is a PE!

- Only active bits kept for a pint
- Skips any repeated AoB operation

Display shows 3 lines of scrolling output, current line of code, count of **pbit** used, unique AoB chunks, and PBP:conventional gate activations

