A single case

Power comparison - p2

- For **cache access**
- cache energy consumption per cache access depends on total cache size, 6KB(spatial cache)<8KB(traditional), 2KB(temporal cache)<8KB(traditional)
- the proposed split cache is energy saving in each cache access:
- energy_per_cache_access_tradition > energy_per_cache_access_split
- similar hit rate means similar access numbers.
- cache_energy = access_numbers * energy_per_cache_access
- Obvious: **cache_power_tradition > cache_power_split**

A single case

Power comparison - p3

- **Other energy consideration**:
- Two cache module introduced extra overhead for ctrl logic
- Cache_ctrl_overhead = 0.0025w