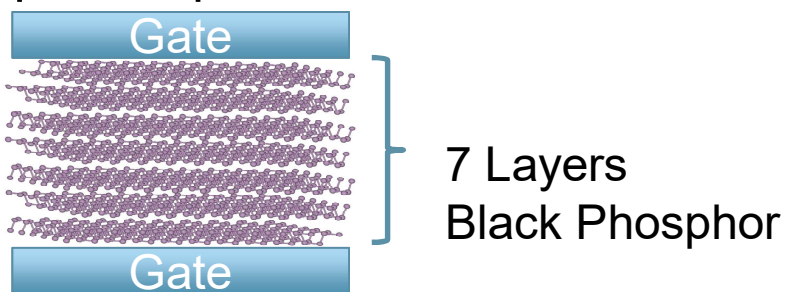


### Problem:

- Simulate 7 layers black phosphor UTB on Blue Waters supercomputer at NCSA



### Approach:

- Strong scaling performance test from 16k cores to 128k cores
- 32 AMD CPU cores per node with 8 cores per MPI process for multithreading

### Result:

- Good strong scaling from 16k cores with 85% parallel efficiency

### Impact:

- Significantly reduce time to solution for 6.8x from 16,000 cores to 128,000 cores

