

Progress report

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Outline

My Work

Result



Simulation structure

```
%Get average from 1000 times simulation
for run_time=1:test
    %setup
    %run until all MTC request finished (30000 UE)
    while(suc_MTC < total) ...;
end
%-----
%draw figures
```

Figure: structure

Performance Optimization

- ▶ for loop → Vectorized
- ▶ unique function → find/sort/diff
- ▶ remove redundant code
- ▶ predefine variables
- ▶ parallel/gpu but failed



Compare - time cost with some minor fix

	before (1 run)	after (1 run)
time	563s	362s
propotion	100%	64%



Compare - time cost with spmd

	before (1 run)	after (4 run)
time	563s	447s
propotion	100%	20%



Simulation result - past

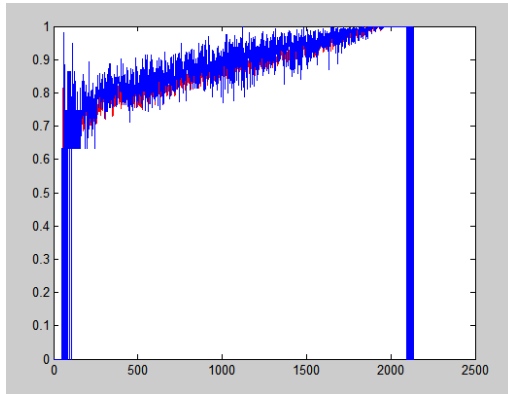


Figure: structure

Simulation result - new

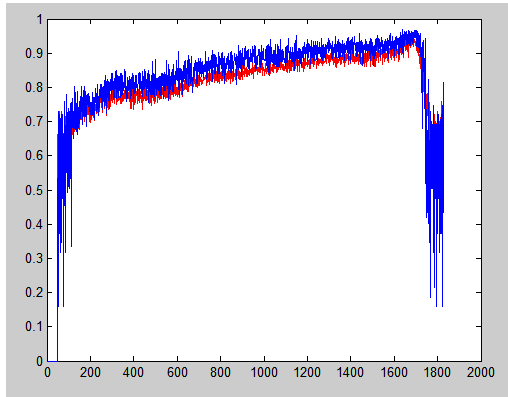


Figure: structure

Future work and problems

- ▶ fix some bug
- ▶ Adjust the simulation variable to compare with other paper
- ▶ no script to draw the figure in Simulation result section



Thanks for Your Attentions

