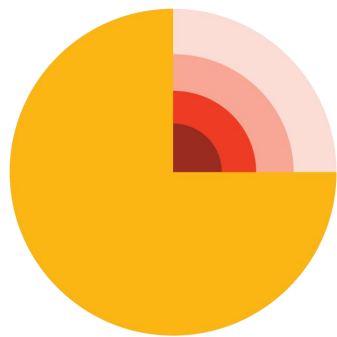




ChEESE

Partner: BSC - CNS



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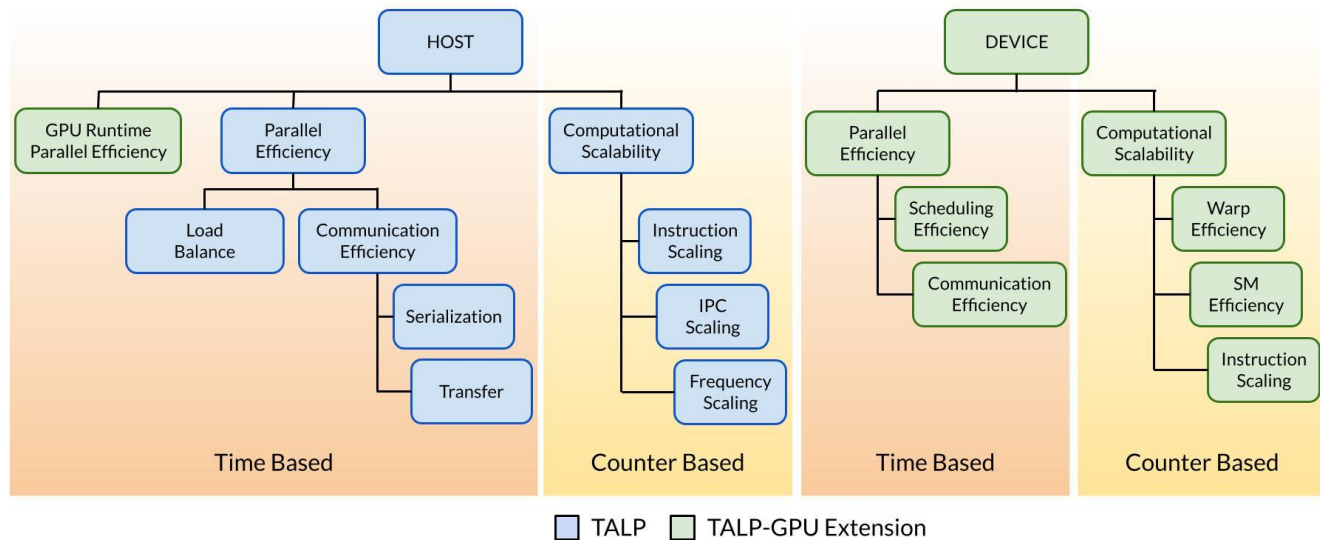
Marta García
Victor López



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Task 2.4 Status Update (BSC)



Task 2.4 Status Update (BSC)

- SeisSol execution on MareNostrum5
- 4 nodes, 16 MPI, 16 GPUs

```
##### Monitoring Region POP Metrics #####
### Name:                                Global
### Elapsed Time:                        347.36 s
### Host
### ----
### Parallel efficiency:                  0.27
### - MPI Parallel efficiency:            0.72
###   - Communication efficiency:         0.76
###   - Load Balance:                    0.95
###     - In:                             0.96
###     - Out:                             0.99
### - CUDA Runtime Parallel efficiency:   0.60
###
### NVIDIA Device
### -----
### Parallel efficiency:                  TBD
### Computational scalability:            TBD
```

Task 2.4 Status Update (BSC)

- Firsts experiments measuring Parallel efficiency in Device
 - Synthetic benchmark

```
##### Monitoring Region POP Metrics #####
### Name:                                Global
### Elapsed Time:                        50.51 s
### Host
### ----
### Parallel efficiency:                  0.00
### - MPI Parallel efficiency:            0.50
###   - Communication efficiency:         1.00
###   - Load Balance:                    0.50
###     - In:                             0.50
###     - Out:                             1.00
### - CUDA Runtime Parallel efficiency:    0.50
###
### NVIDIA Device
### -----
### Parallel efficiency:                  0.50
### - Communication efficiency:            1.00
### - Scheduling efficiency:               0.50
### Computational scalability:             TBD
```