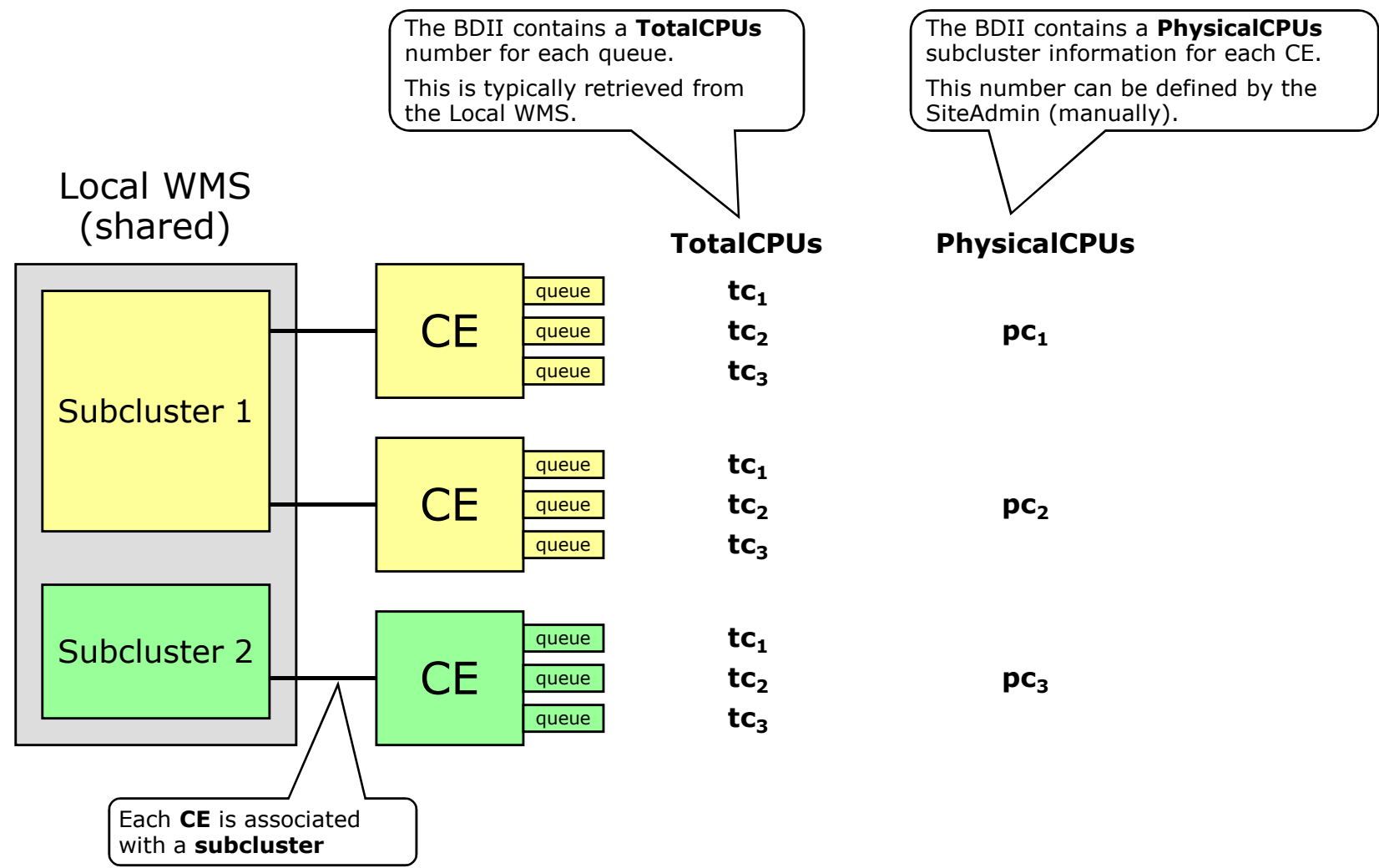
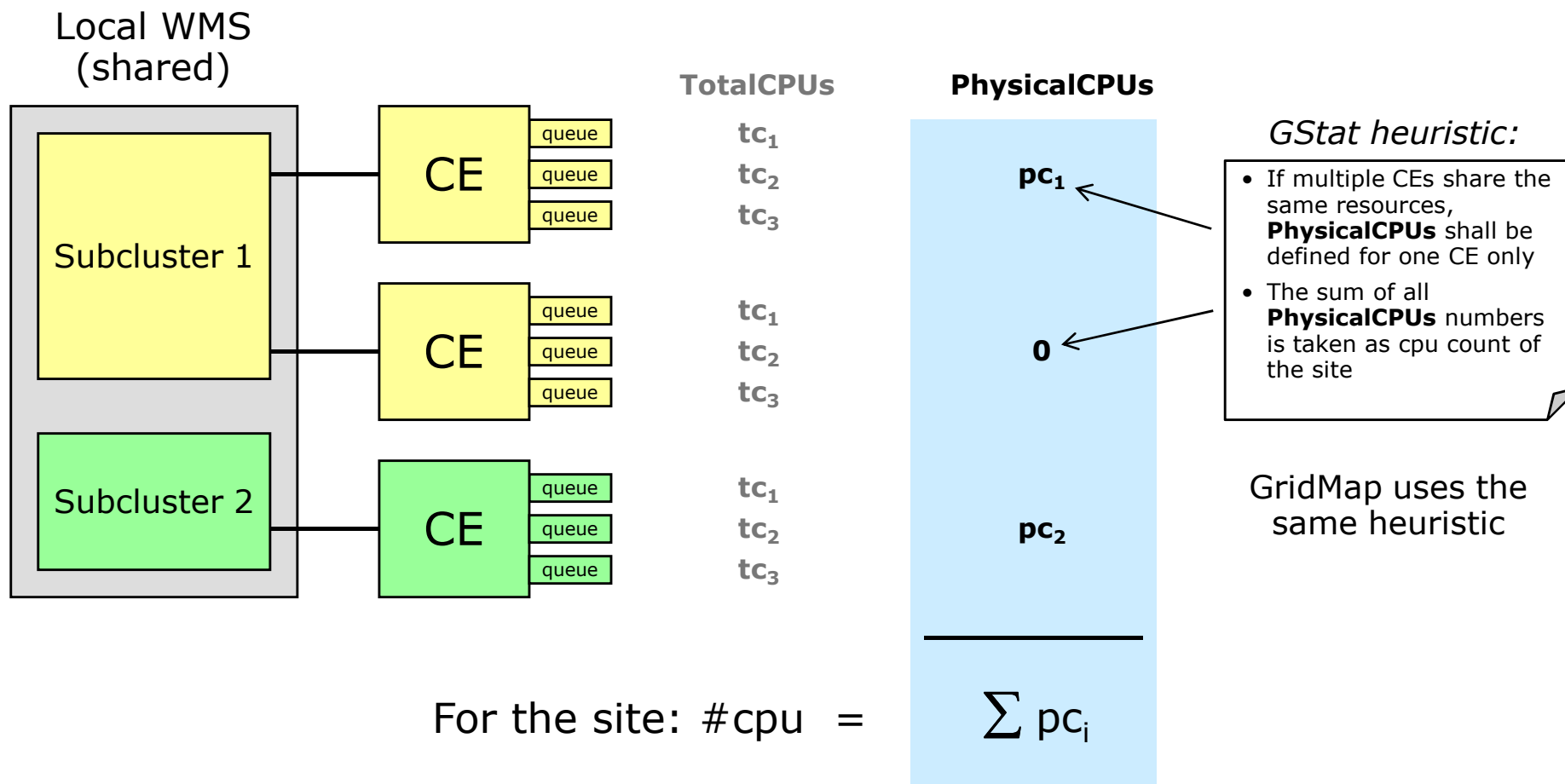


GridMap's CPU Counting Algorithm (1)



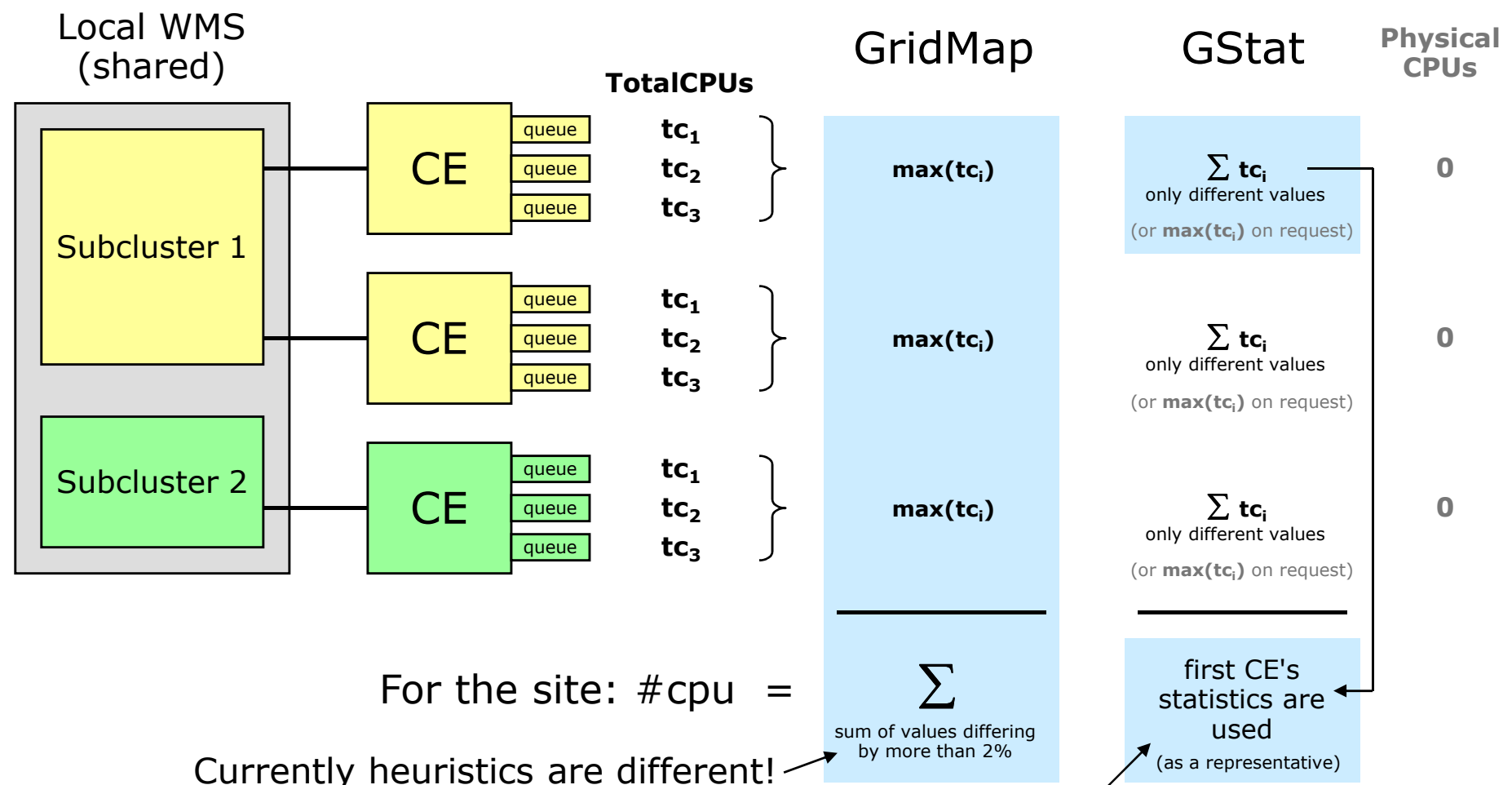
GridMap's CPU Counting Algorithm (2)

If any PhysicalCPUs number is defined



GridMap's CPU Counting Algorithm (3)

If all PhysicalCPUs numbers are 0



Accessing GridMap's CPU counting data

- Report for one site

<http://gridmap.cern.ch/gm/report.py/cpu?sitename=xxx>

- Report of all sites where GridMap and GStat numbers differ

<http://gridmap.cern.ch/gm/report.py/cpu>

- Data service returning GridMap CPU counts per site

<http://gridmap.cern.ch/gm/bdii.py/cpucount>

GStat

- How does GStat count CPUs

http://goc.grid.sinica.edu.tw/gocwiki/How_does_GStat_count_CPUs

http://goc.grid.sinica.edu.tw/gstat/filter_help.html#GIISQuery_Usage

Example report for CERN-PROD

<http://gridmap.cern.ch/gm/report.py/cpu?sitename=CERN-PROD>

CERN-PROD	PhysicalCPUs	max	sum	TotalCPUs values of queues
ce103.cern.ch	0	3268	9676	[3188, 3220, 3268]
ce104.cern.ch	0	3268	9676	[3188, 3220, 3268]
ce105.cern.ch	0	3268	9676	[3188, 3220, 3268]
ce106.cern.ch	0	3268	9676	[3188, 3220, 3268]
ce107.cern.ch	0	3268	9676	[3188, 3220, 3268]
ce108.cern.ch	0	3268	9676	[3188, 3220, 3268]
ce109.cern.ch	0	3268	9676	[3188, 3220, 3268]
ce111.cern.ch	0	3268	9676	[3188, 3220, 3268]
ce112.cern.ch	0	3268	9676	[3188, 3220, 3268]
ce113.cern.ch	3120	3268	9676	[3188, 3220, 3268]
ce114.cern.ch	0	3268	9676	[3188, 3220, 3268]
ce115.cern.ch	0	3268	9676	[3188, 3220, 3268]
ce124.cern.ch	0	3268	9676	[3188, 3220, 3268]
ce125.cern.ch	0	3268	9676	[3188, 3220, 3268]
ce126.cern.ch	0	3268	9676	[3188, 3220, 3268]
ce127.cern.ch	0	3268	9676	[3188, 3220, 3268]
ce128.cern.ch	0	2919	8521	[2785, 2817, 2919]
ce129.cern.ch	0	3268	9676	[3188, 3220, 3268]

A **PhysicalCPUs** number is defined

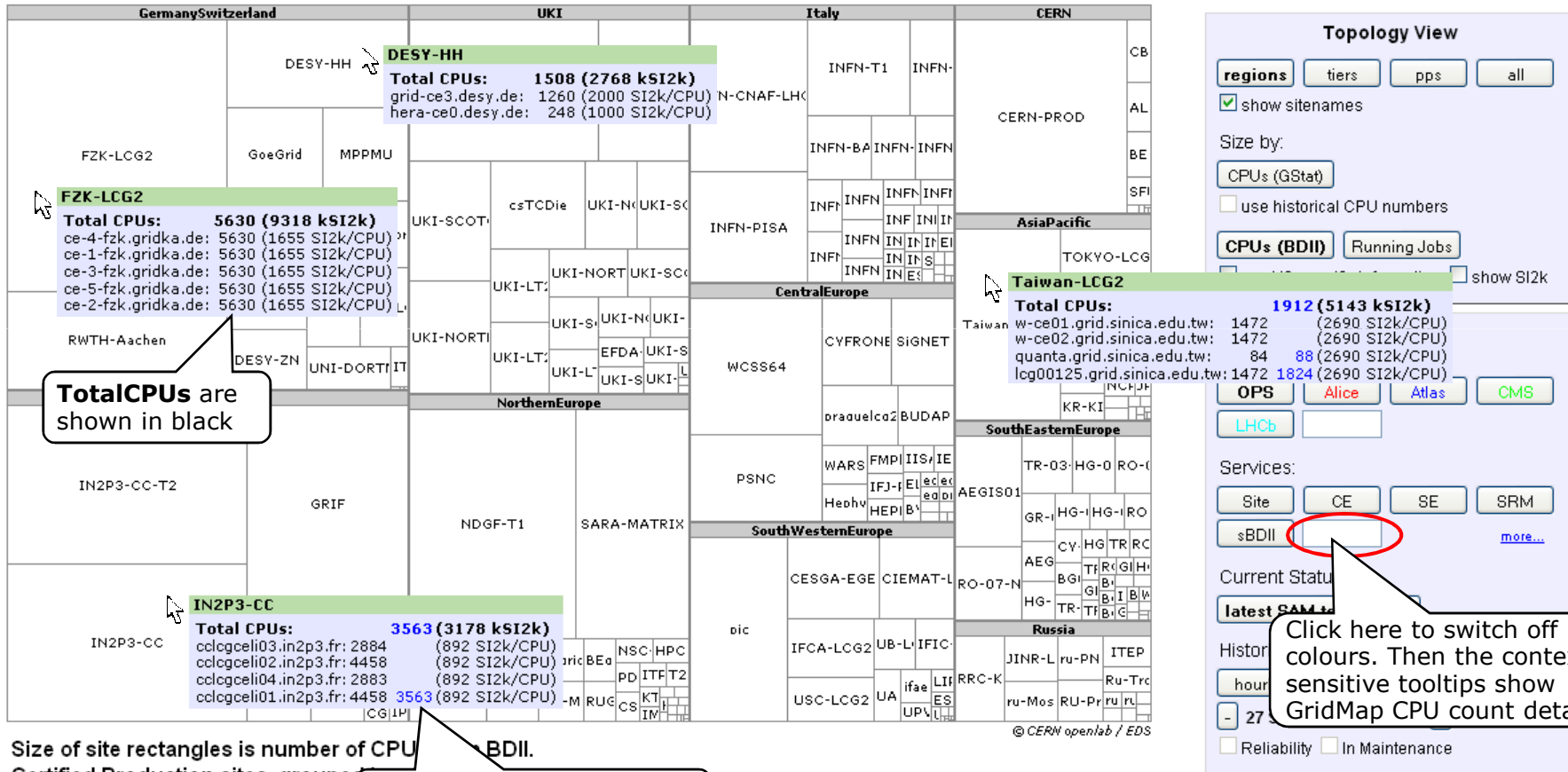
GridMap CPU count: 3120 (PhysicalCPUs)
GStat CPU count: 3120 (PhysicalCPUs)

GridMap and GStat return the same numbers

Queues exist with these **TotalCPUs** numbers

CPU Counts Display in GridMap

GridMap has a "hidden feature" showing CPU counts per CE
 (originally intended for debugging purposes)



Total CPUs are shown in black

Click here to switch off colours. Then the context sensitive tooltips show GridMap CPU count details

Size of site rectangles is number of CPU
 Certified Production sites, grouped

Physical CPUs are shown in blue, if defined (not 0)

see also [EGEE'07 conference presentation on GridMaps](#)
 and [ISGTW article on GridMaps](#)
[bookmark settings](#)
 Contact: gridmap@cern.ch

