

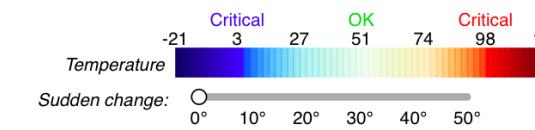


TEXAS TECH
UNIVERSITY.

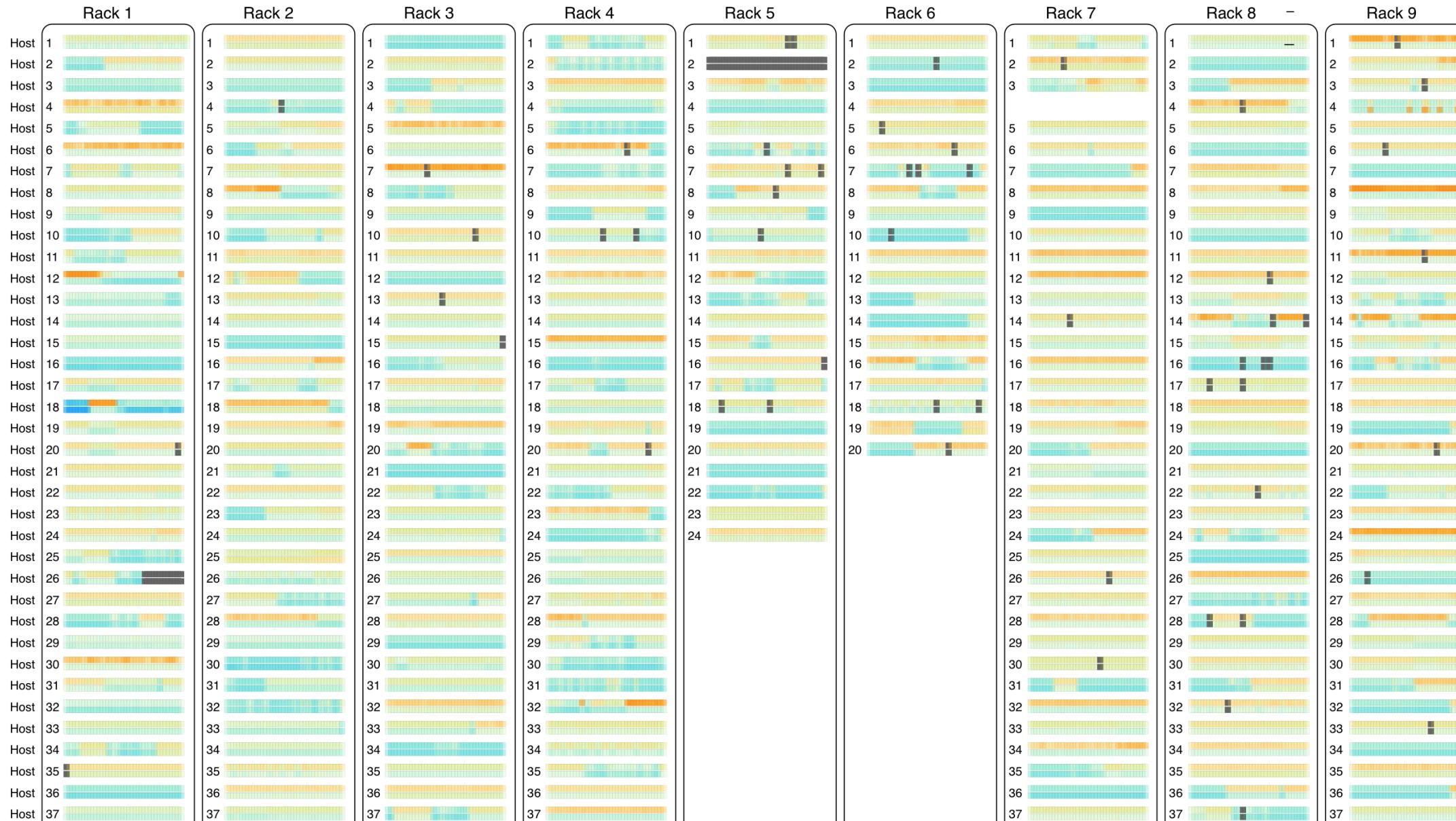
Visualizing Temperature

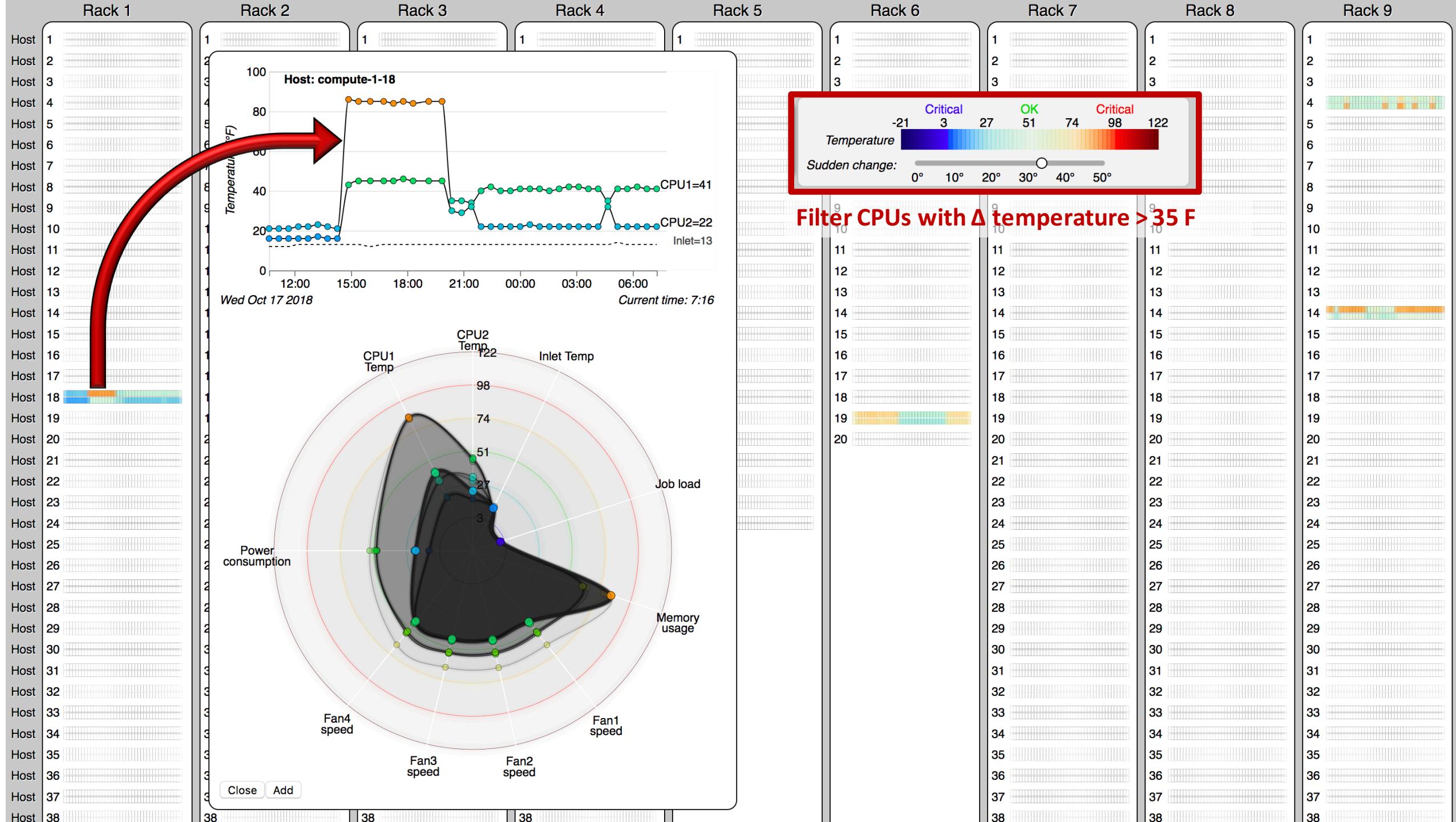
High Performance Computing Center

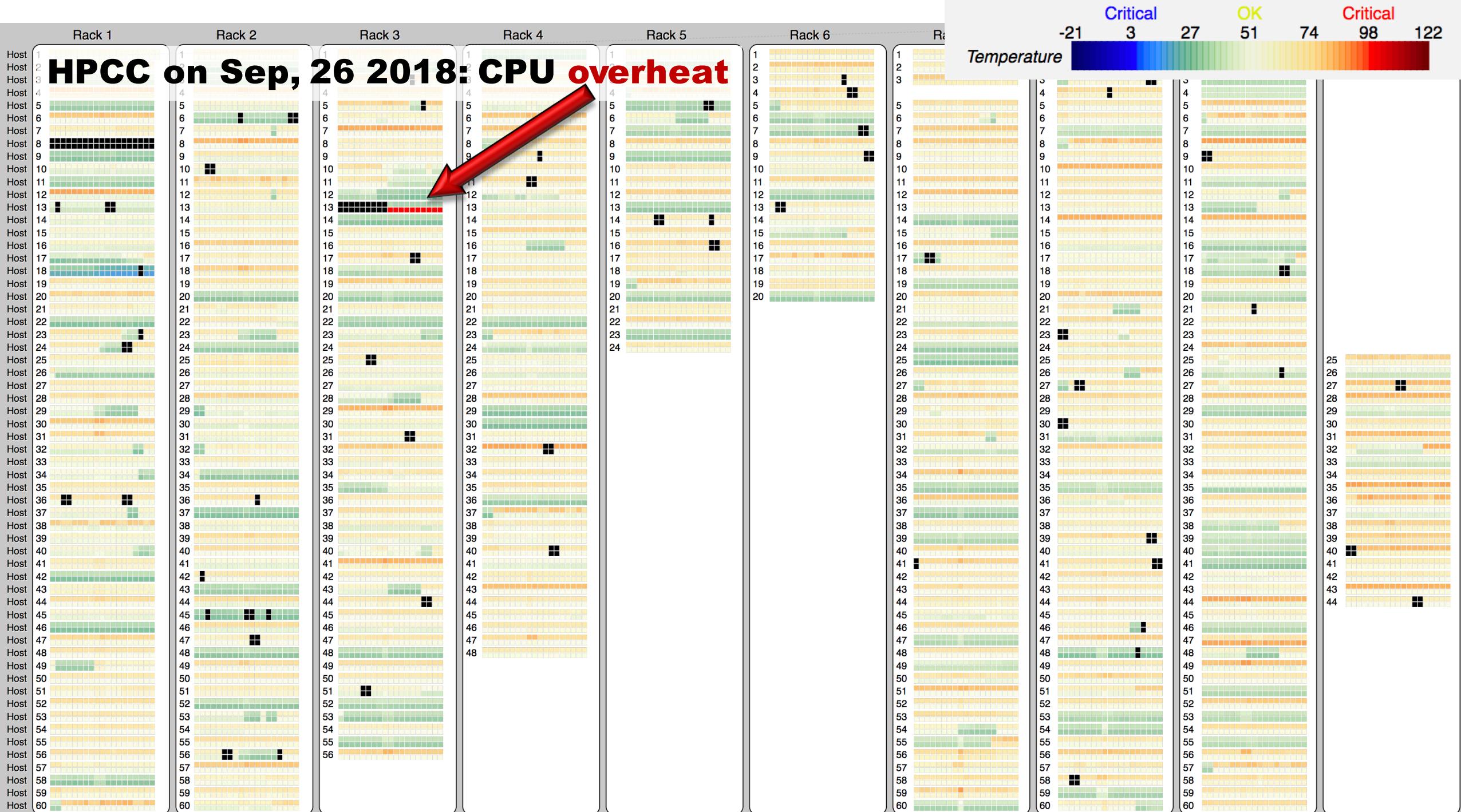
Wed Oct 17 2018

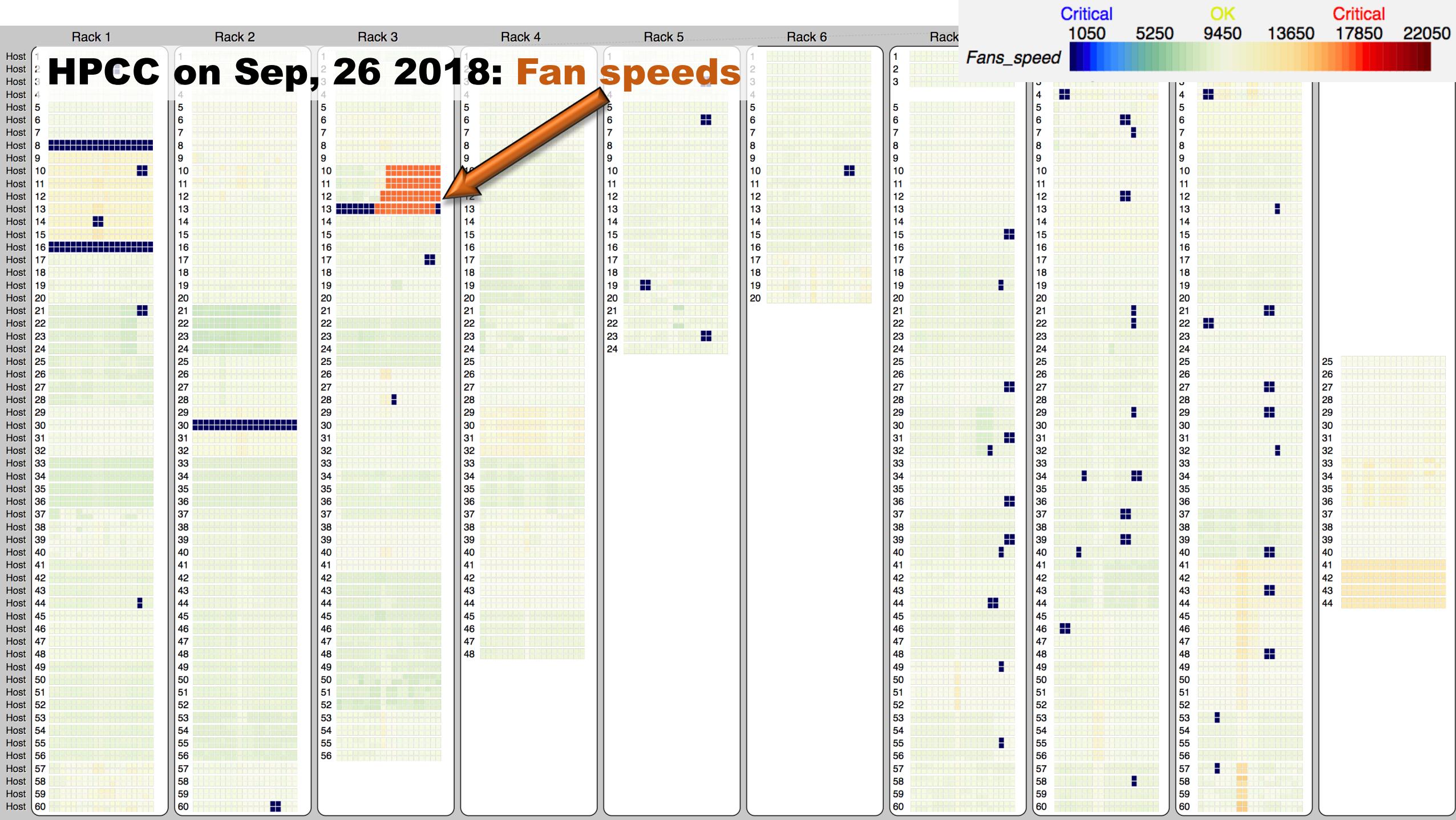


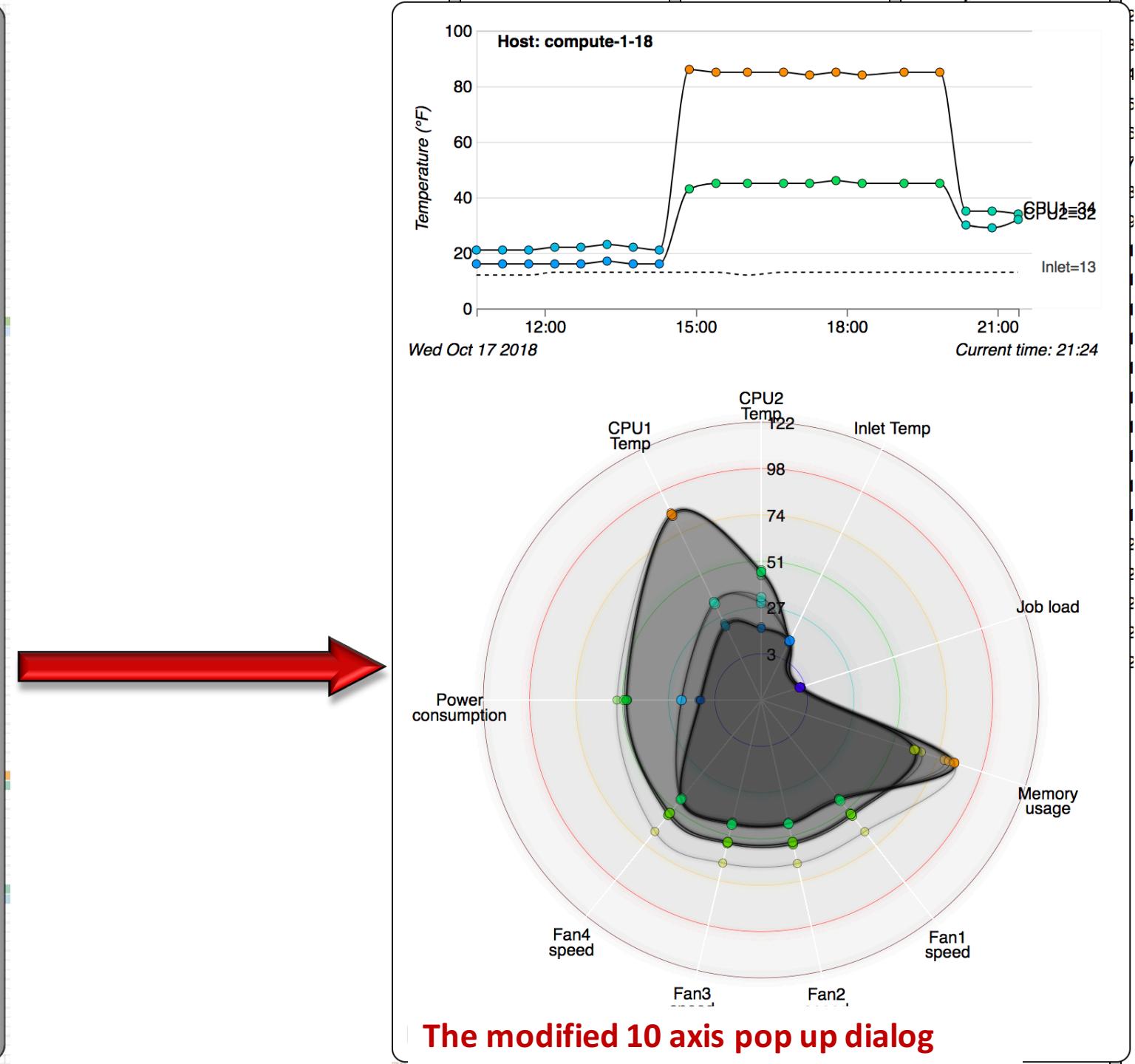
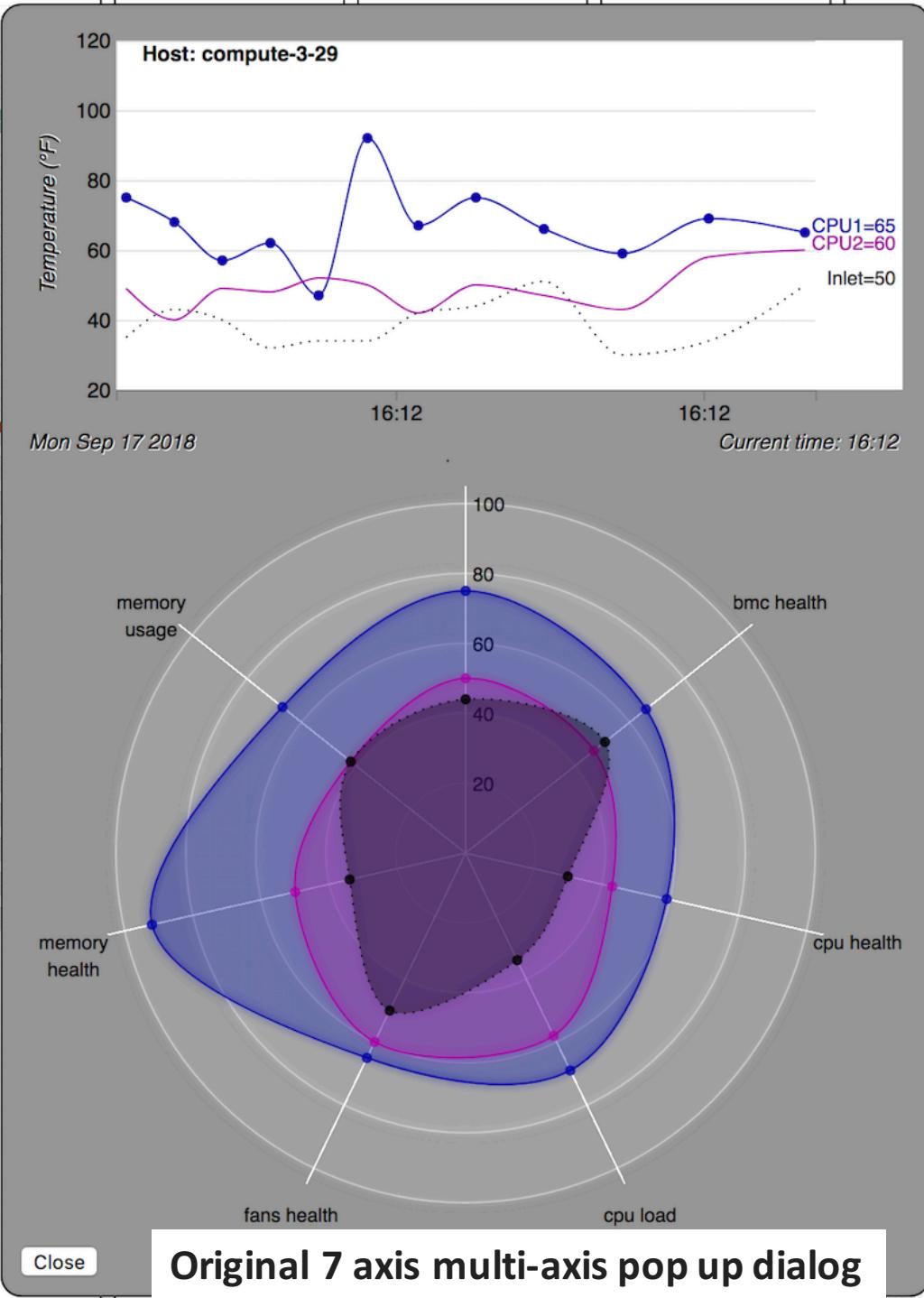
Quanah HPC system: 467 hosts distributed in 10 racks



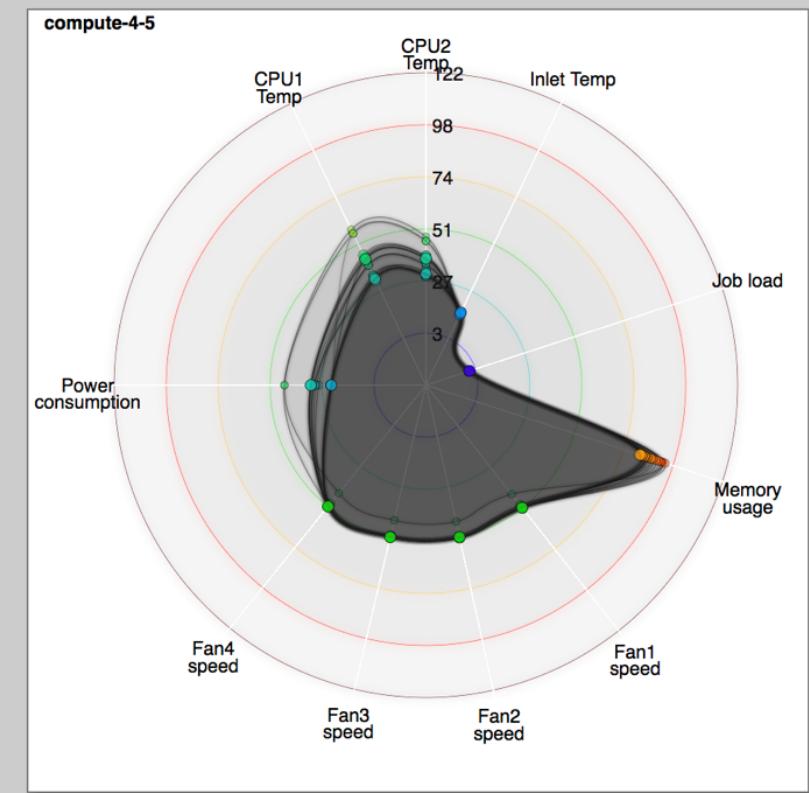
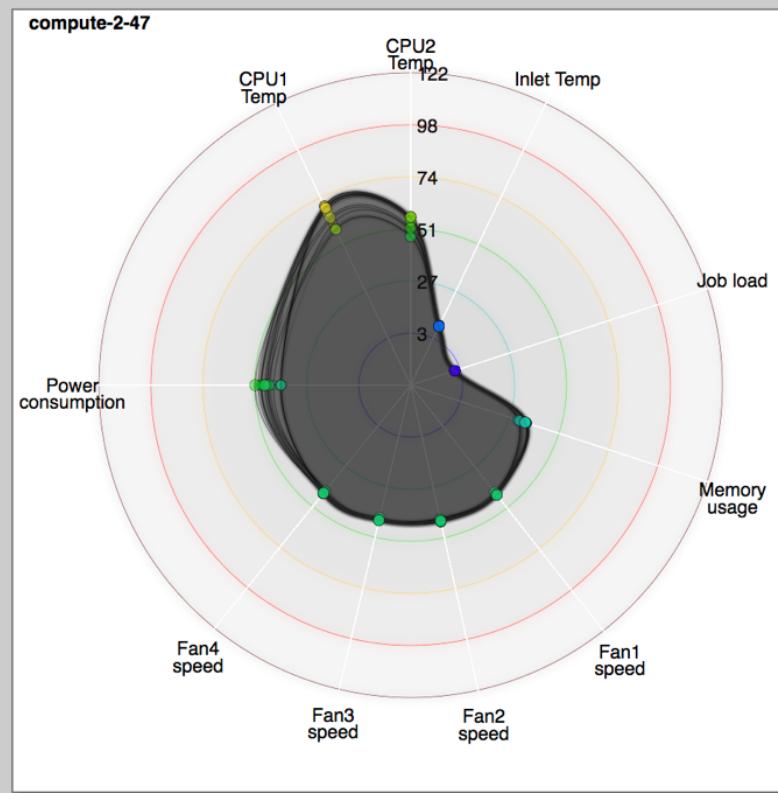
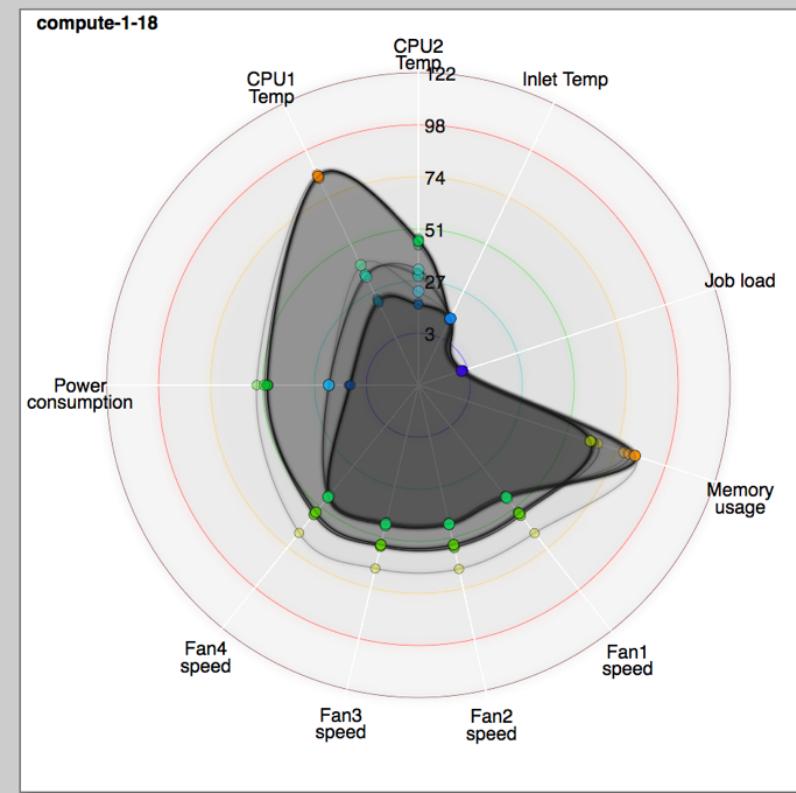




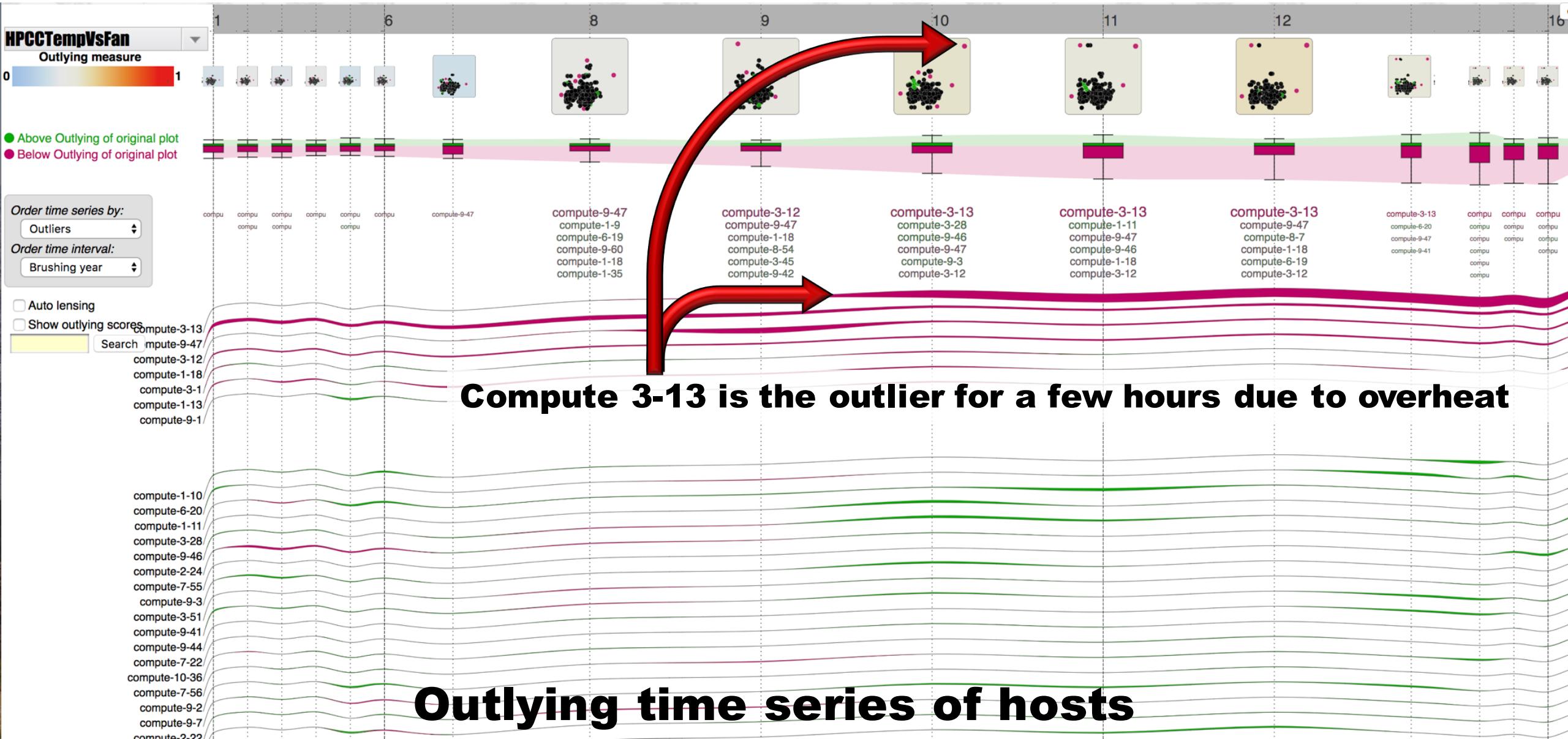




More examples of 10 axis Radar chart



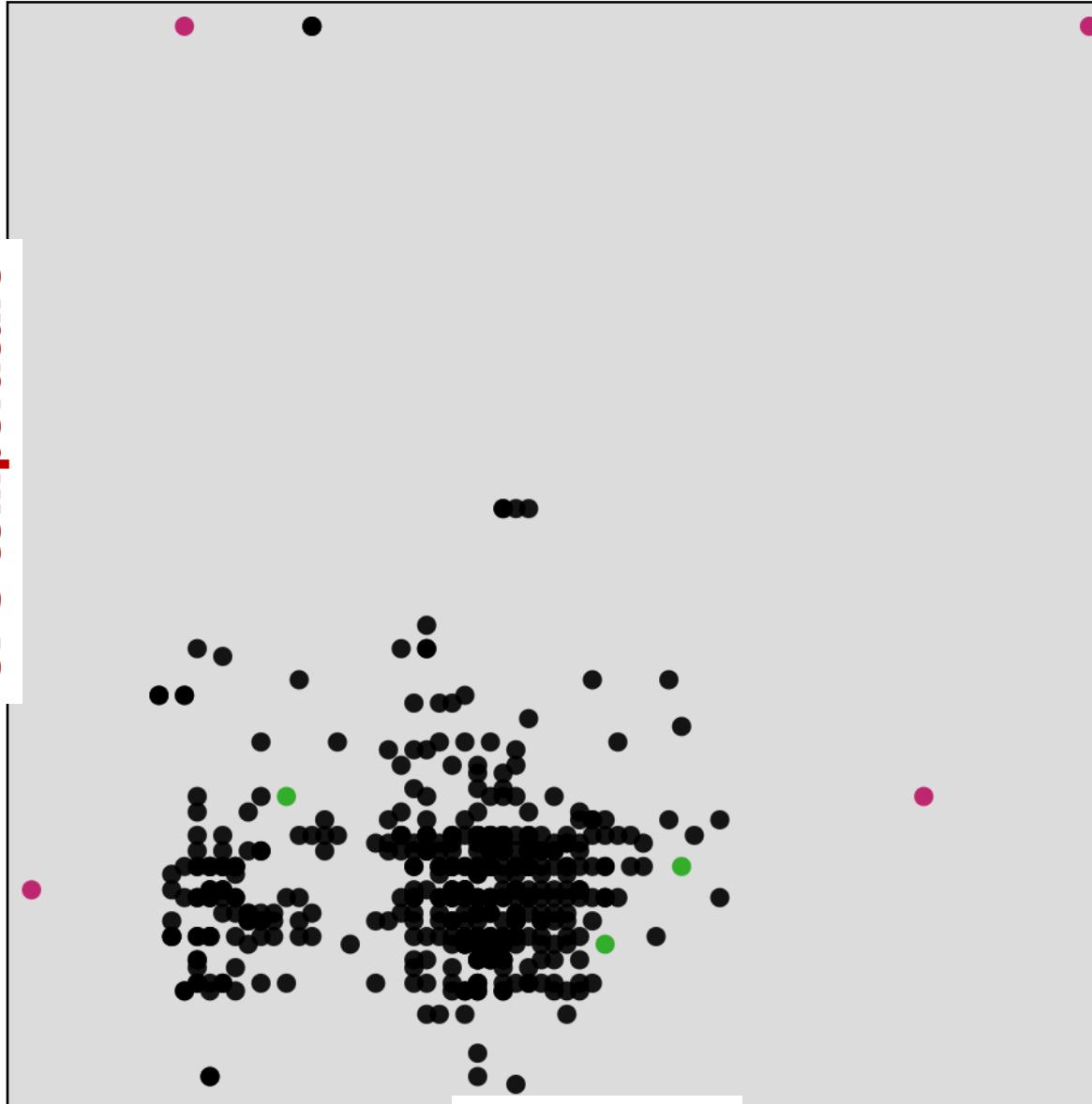
HPCC on Sep, 26 2018: CPU temperature vs Fan speed



HPCC on Sep, 26 2018: CPU temperature vs Fan speed

Original scatter plot

CPU temperature

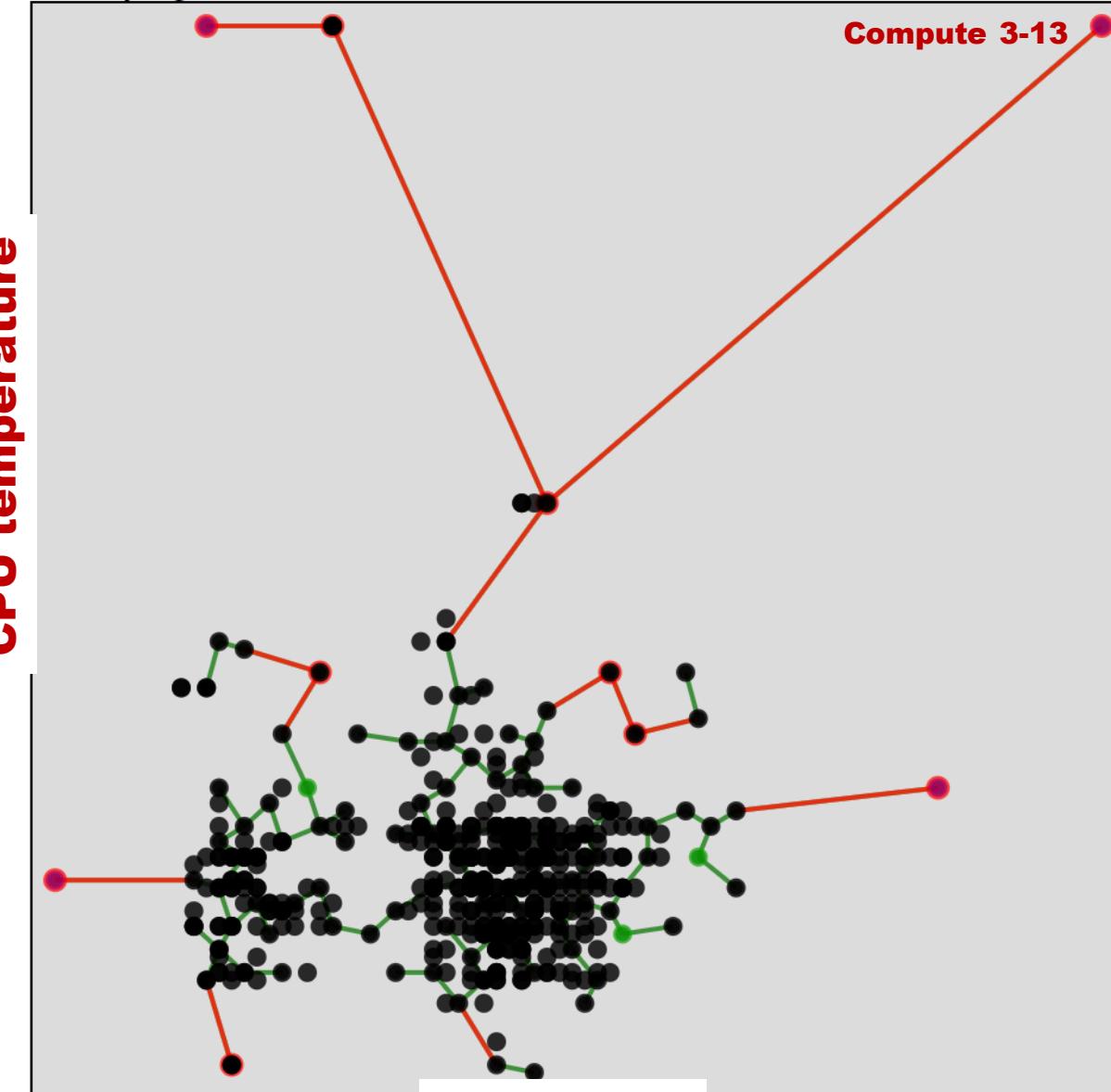


Bins on original

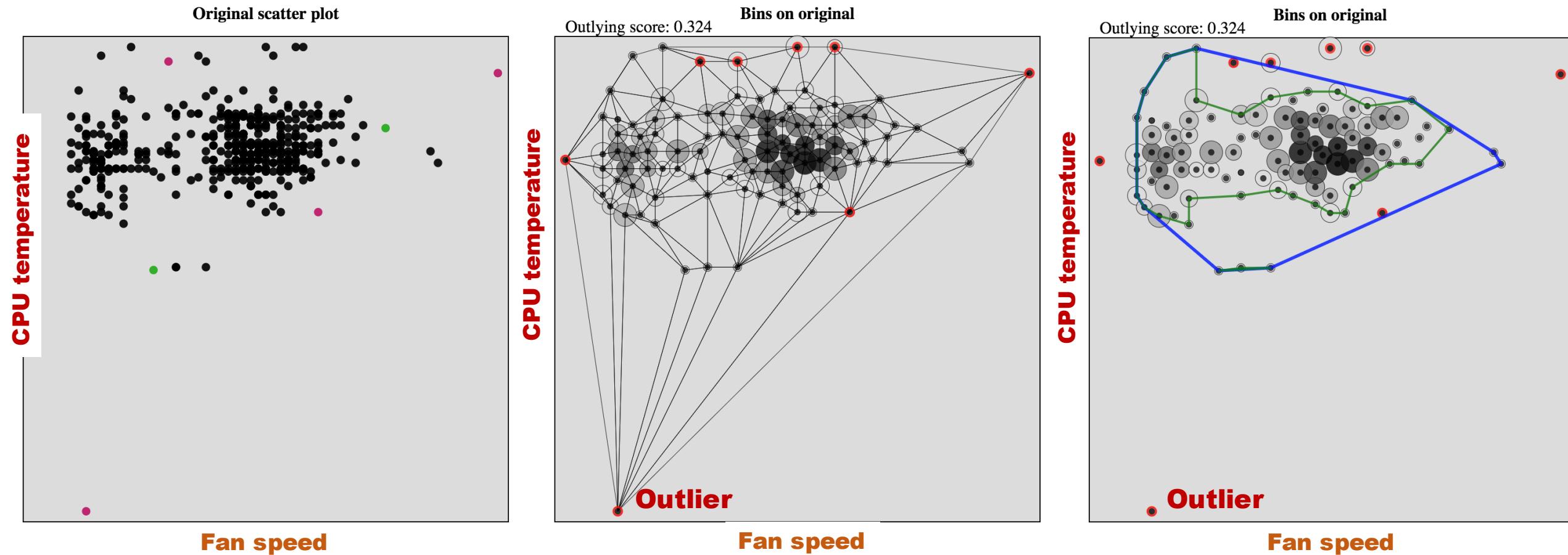
Outlying score: 0.443

Compute 3-13

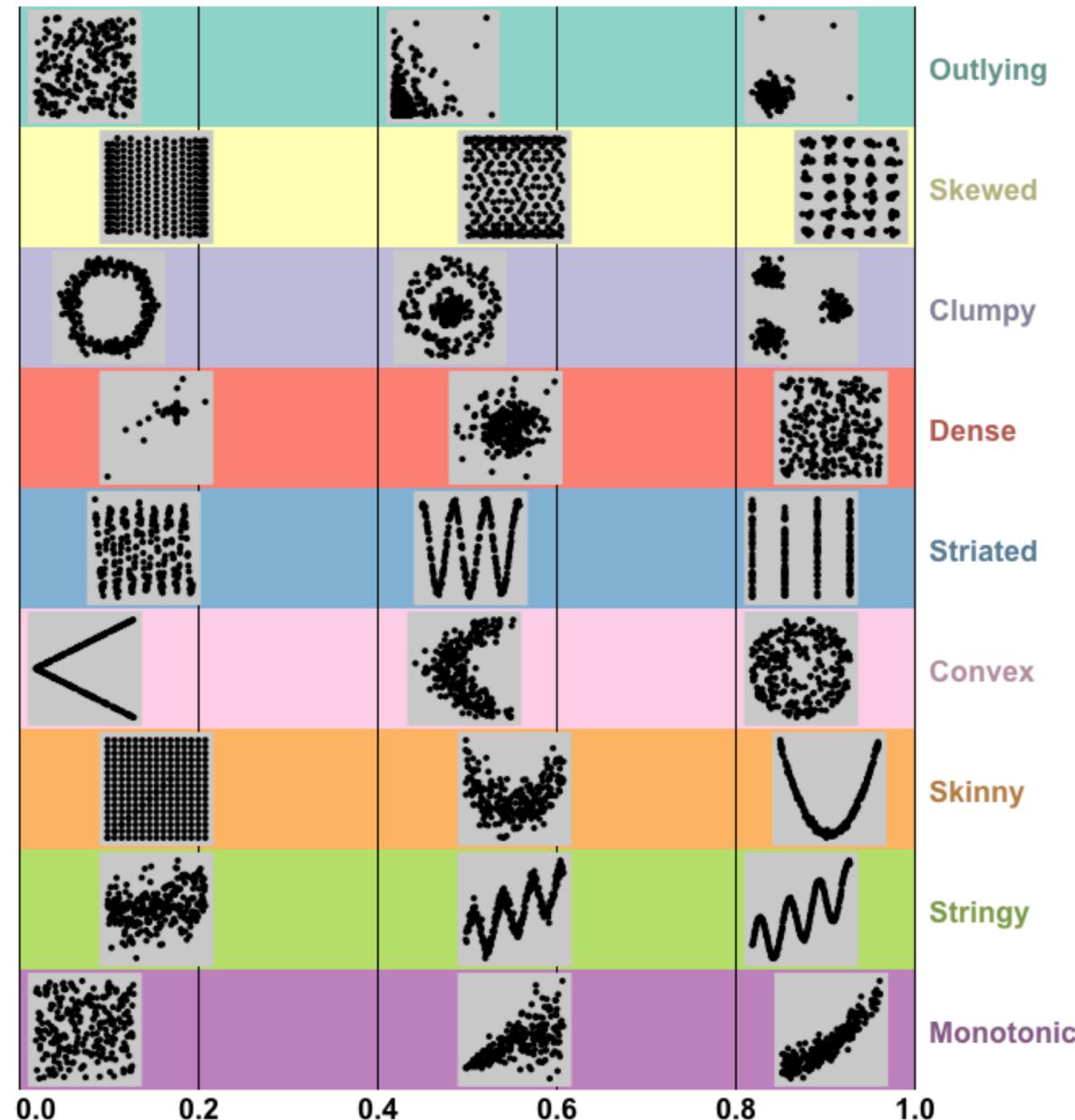
CPU temperature



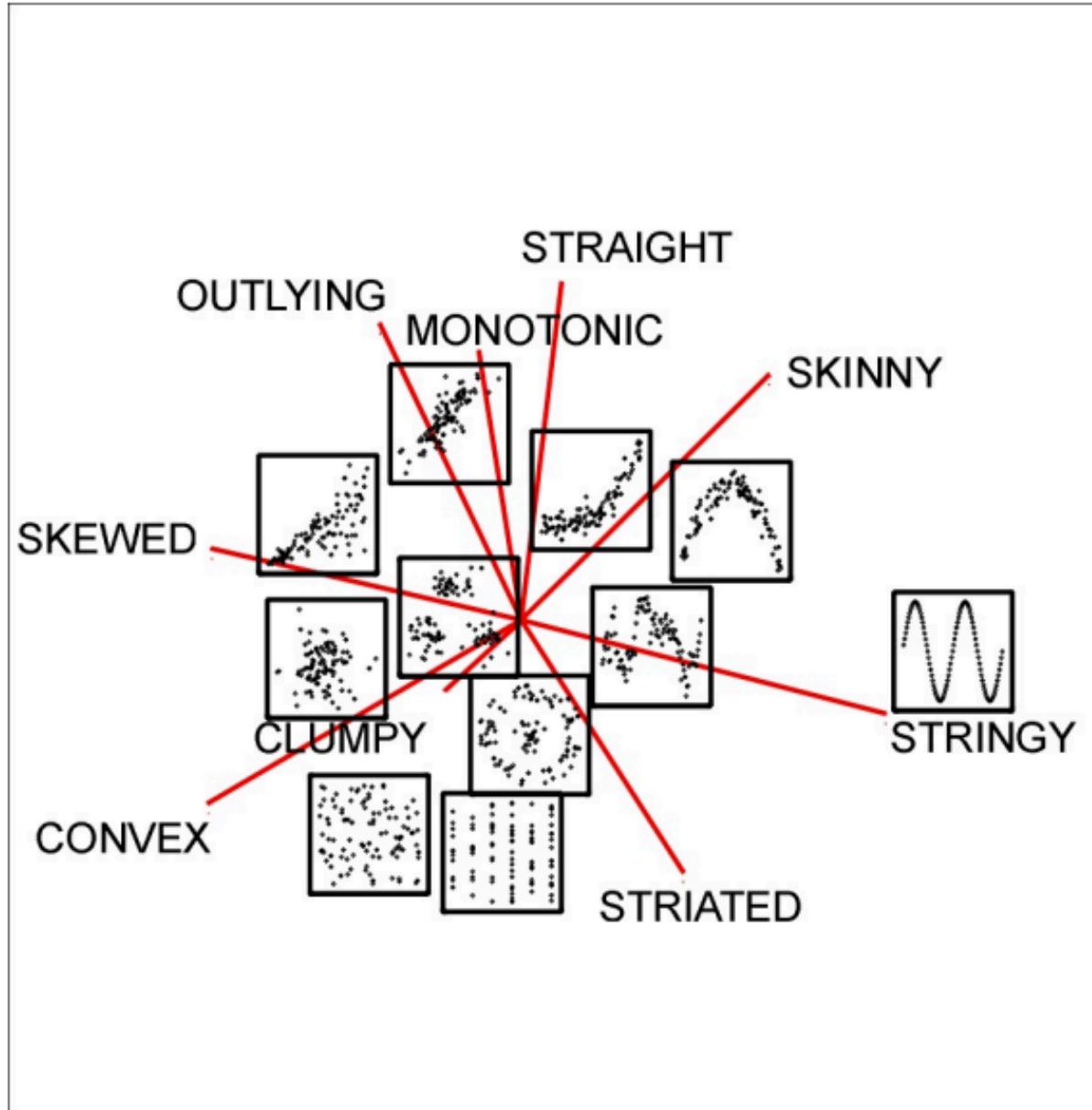
HPCC on Sep, 26 2018: CPU temperature vs Fan speed



Multi-dimensional analytics

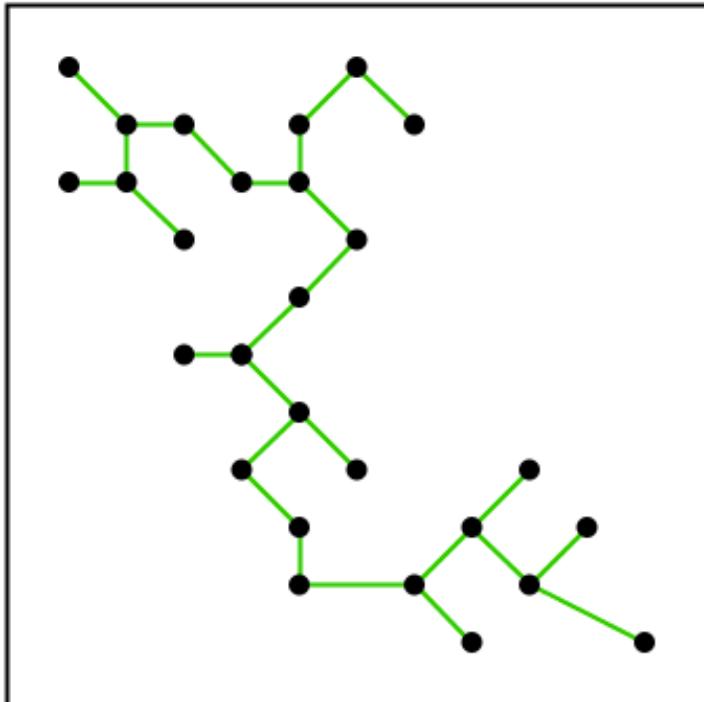


Example scatterplot and features on PCA

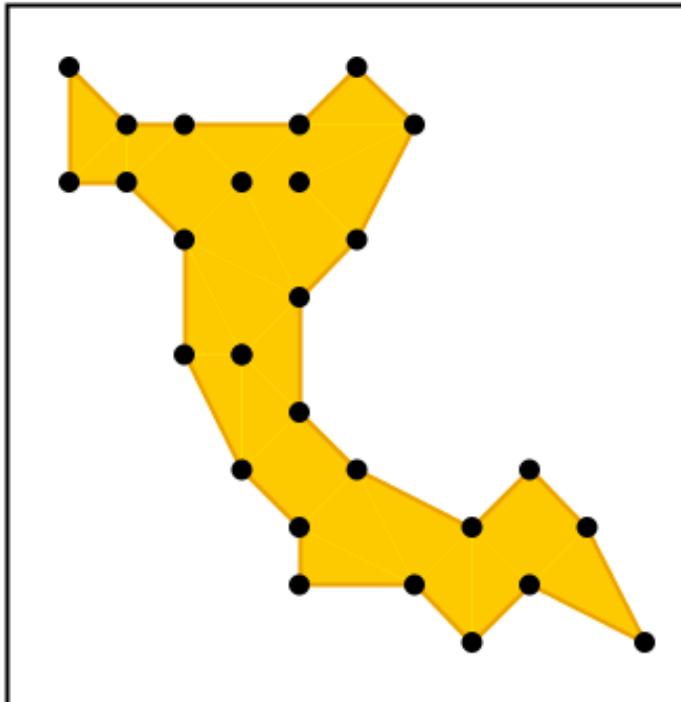


Multi-dimensional analytics

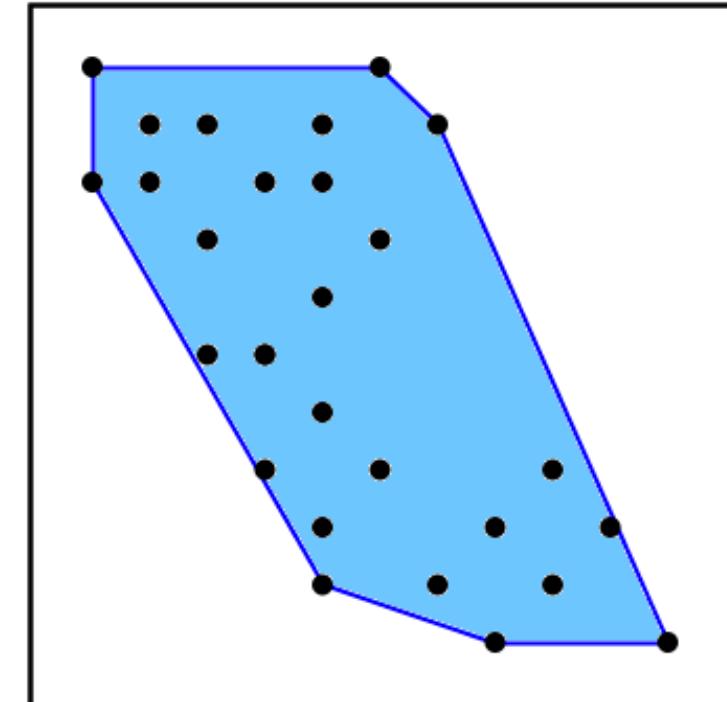
MST



Alpha Shape

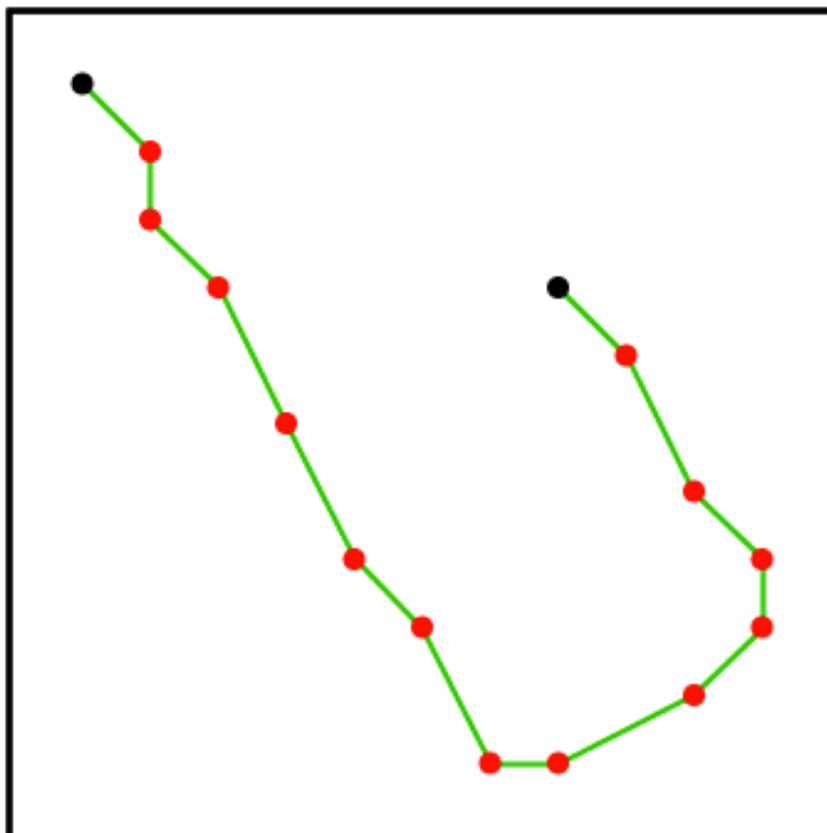


Convex Hull

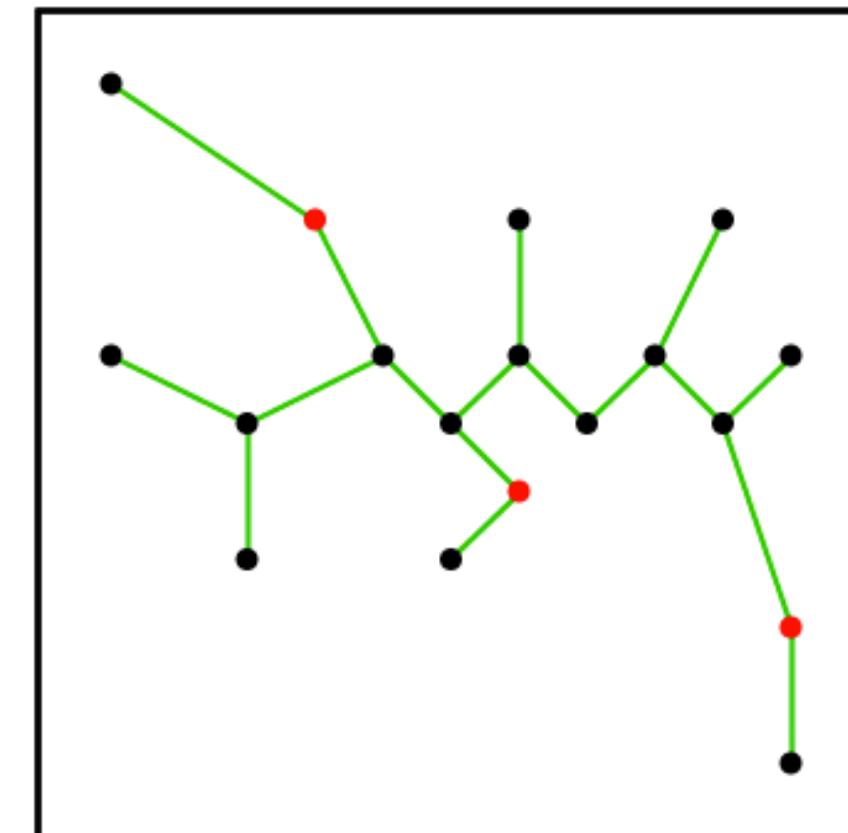


Example: STRINGY feature

$$c_{stringy} = \frac{|V^{(2)}|}{|V| - |V^{(1)}|}$$



High Stringy



Low Stringy