

Threshold-based Probability Estimation

Measurement	Threshold	Threshold_Value	Probability_Larger	Probability_Smaller
load-15m	mean	10.1648	0.3774	0.6226
load-15m	10%(max)	2.7	0.9262	0.0738
load-15m	90%(max)	24.3	0.0214	0.9786
memory_used_pct	mean	13.1137	0.423	0.577
memory_used_pct	10%(max)	2.0533	1.0	0.0
memory_used_pct	90%(max)	18.4801	0.0014	0.9986
cpu-user	mean	0.0379	0.4838	0.5162
cpu-user	10%(max)	0.0084	1.0	0.0
cpu-user	90%(max)	0.0752	0.0036	0.9964
cpu-system	mean	0.0287	0.4301	0.5699
cpu-system	10%(max)	0.0059	1.0	0.0
cpu-system	90%(max)	0.0527	0.0118	0.9882
sys-thermal	mean	0.9579	0.5526	0.4474
sys-thermal	10%(max)	0.355	0.5537	0.4463
sys-thermal	90%(max)	3.195	0.0148	0.9852
sys-interrupt-rate	mean	665.7152	0.4037	0.5963
sys-interrupt-rate	10%(max)	103.005	1.0	0.0
sys-interrupt-rate	90%(max)	927.045	0.0179	0.9821
disk-io-time	mean	0.0047	0.5721	0.4279
disk-io-time	10%(max)	0.0011	0.9039	0.0961
disk-io-time	90%(max)	0.0099	0.0129	0.9871

Crosstable Analysis Based on Mean Threshold

	x > Mean	x < Mean	Total
load-15m	26100	43051	69151
memory_used_pct	29249	39902	69151
cpu-user	33454	35697	69151
cpu-system	29744	39407	69151
sys-thermal	38211	30940	69151
sys-interrupt-rate	27917	41234	69151
disk-io-time	39559	29592	69151

Conditional Probability Analysis

Condition	Probability
P(load-15m > (mean) memory_used_pct > (mean))	0.2319
P(load-15m < (mean) memory_used_pct > (mean))	0.1911
P(load-15m > (mean) cpu-user > (mean))	0.2061
P(load-15m < (mean) cpu-user > (mean))	0.2776
P(load-15m > (mean) cpu-system > (mean))	0.1848
P(load-15m < (mean) cpu-system > (mean))	0.2454
P(load-15m > (mean) sys-thermal > (mean))	0.2098
P(load-15m < (mean) sys-thermal > (mean))	0.3427
P(load-15m < 10%(max) sys-thermal < 10%(max))	0.0338
P(sys-thermal < 10%(max) load-15m > 90%(max))	0.0091
P(load-15m > 90%(max) sys-thermal < 10%(max))	0.0091
P(load-15m > (mean) sys-interrupt-rate > (mean))	0.1919
P(load-15m < (mean) sys-interrupt-rate > (mean))	0.2118
P(load-15m > (mean) disk-io-time > (mean))	0.2358
P(load-15m < (mean) disk-io-time > (mean))	0.3362
P(load-15m < 10%(max) disk-io-time < 10%(max))	0.0114
P(memory_used_pct > (mean) cpu-user > (mean))	0.2578
P(memory_used_pct < (mean) cpu-user > (mean))	0.226
P(memory_used_pct > (mean) cpu-system > (mean))	0.228
P(memory_used_pct < (mean) cpu-system > (mean))	0.2022
P(memory_used_pct > (mean) sys-thermal > (mean))	0.2366
P(memory_used_pct < (mean) sys-thermal > (mean))	0.316
P(memory_used_pct > (mean) sys-interrupt-rate > (mean))	0.2628
P(memory_used_pct < (mean) sys-interrupt-rate > (mean))	0.141
P(memory_used_pct > (mean) disk-io-time > (mean))	0.2868
P(memory_used_pct < (mean) disk-io-time > (mean))	0.2853
P(cpu-user > (mean) cpu-system > (mean))	0.3672
P(cpu-user < (mean) cpu-system > (mean))	0.0629
P(cpu-user > (mean) sys-thermal > (mean))	0.2658
P(cpu-user < (mean) sys-thermal > (mean))	0.2868
P(sys-thermal < 10%(max) cpu-user > 90%(max))	0.0016
P(cpu-user > 90%(max) sys-thermal < 10%(max))	0.0016
P(cpu-user > (mean) sys-interrupt-rate > (mean))	0.2823
P(cpu-user < (mean) sys-interrupt-rate > (mean))	0.1214
P(cpu-user > (mean) disk-io-time > (mean))	0.3084
P(cpu-user < (mean) disk-io-time > (mean))	0.2637
P(cpu-system > (mean) sys-thermal > (mean))	0.2353
P(cpu-system < (mean) sys-thermal > (mean))	0.3173
P(sys-thermal < 10%(max) cpu-system > 90%(max))	0.0056
P(cpu-system > 90%(max) sys-thermal < 10%(max))	0.0056
P(cpu-system > (mean) sys-interrupt-rate > (mean))	0.2664
P(cpu-system < (mean) sys-interrupt-rate > (mean))	0.1373
P(cpu-system > 90%(max) sys-interrupt-rate > 90%(max))	0.0023
P(cpu-system > (mean) disk-io-time > (mean))	0.2742
P(cpu-system < (mean) disk-io-time > (mean))	0.2978
P(sys-thermal > (mean) sys-interrupt-rate > (mean))	0.2253
P(sys-thermal < (mean) sys-interrupt-rate > (mean))	0.1784
P(sys-thermal < 10%(max) sys-interrupt-rate > 90%(max))	0.0073
P(sys-interrupt-rate > 90%(max) sys-thermal < 10%(max))	0.0073
P(sys-thermal > (mean) disk-io-time > (mean))	0.3176
P(sys-thermal < (mean) disk-io-time > (mean))	0.2545
P(sys-thermal < 10%(max) disk-io-time < 10%(max))	0.044
P(sys-thermal < 10%(max) disk-io-time > 90%(max))	0.0057
P(disk-io-time < 10%(max) sys-thermal > 90%(max))	0.0012
P(sys-thermal > 90%(max) disk-io-time < 10%(max))	0.0012
P(disk-io-time > 90%(max) sys-thermal < 10%(max))	0.0057
P(sys-interrupt-rate > (mean) disk-io-time > (mean))	0.2844
P(sys-interrupt-rate < (mean) disk-io-time > (mean))	0.2877