

1 Search Heuristics

Can you find a better heuristic than first-fail?

Comparison between first-fail min-value (ffminv), first-fail max-value (ffmaxv), first-fail split-max(ffsmax), first-fail split-min (ffsmin).

Search Heuristic	nodes	failures
ffminv	178	87
ffmaxv	50	23
ffsmax	50	23
ffsminv	180	87

First-fail max-value and First-fail split-max are the best heuristics I've found. The main difference is that when picking max-value instead of min the failed sub-trees is a lot smaller. I.e trying the larger values first give more constraints and more propagation possible.