

Table 1 the coverage of 5 and 6-strength interactions of the 4-wise sub-covering arrays

Subject	5-wise			6-wise		
	Bottom-up	Top-down	Improve	Bottom-up	Top-down	Improve
Flex	94.71%	95.03%	0.32%	80.18%	81.09%	0.91%
Grep(SIR)	97.94%	97.85%	-0.09%	93.27%	92.87%	-0.40%
Gzip	99.59%	99.55%	-0.04%	98.38%	98.22%	-0.16%
make	88.24%	88.88%	0.64%	61.61%	61.75%	0.14%
Sed	100.00%	100.00%	0.00%	100.00%	100.00%	0.00%
Findutils	79.87%	81.25%	1.38%	47.56%	48.95%	1.39%
Grep(CoRE)	90.00%	91.89%	1.89%	65.66%	69.01%	3.35%