

| Benchmark  | Dynamic | CHA       |           |               | VTA       |           |               | PTA       |           |               | TFA       |           |               |
|------------|---------|-----------|-----------|---------------|-----------|-----------|---------------|-----------|-----------|---------------|-----------|-----------|---------------|
|            |         | <i>TP</i> | <i>FN</i> | <i>Recall</i> | <i>TP</i> | <i>FN</i> | <i>Recall</i> | <i>TP</i> | <i>FN</i> | <i>Recall</i> | <i>TP</i> | <i>FN</i> | <i>Recall</i> |
| check      | 149     | 149       | 0         | 1.000         | 116       | 33        | 0.779         | 116       | 33        | 0.779         | 145       | 4         | 0.973         |
| compiler   | 487     | 486       | 1         | 0.998         | 297       | 190       | 0.610         | 300       | 187       | 0.616         | 466       | 21        | 0.957         |
| compress   | 351     | 351       | 0         | 1.000         | 247       | 104       | 0.704         | 313       | 38        | 0.892         | 313       | 38        | 0.892         |
| crypto     | 449     | 449       | 0         | 1.000         | 279       | 170       | 0.621         | 349       | 100       | 0.777         | 406       | 43        | 0.904         |
| derby      | 583     | 583       | 0         | 1.000         | 352       | 231       | 0.604         | 433       | 150       | 0.743         | 549       | 34        | 0.942         |
| helloworld | 21      | 21        | 0         | 1.000         | 20        | 1         | 0.952         | 20        | 1         | 0.952         | 21        | 0         | 1.000         |
| mpegaudio  | 254     | 254       | 0         | 1.000         | 213       | 41        | 0.839         | 232       | 22        | 0.913         | 246       | 8         | 0.969         |
| scimark    | 377     | 377       | 0         | 1.000         | 283       | 94        | 0.751         | 349       | 28        | 0.926         | 367       | 10        | 0.973         |
| serial     | 451     | 451       | 0         | 1.000         | 298       | 153       | 0.661         | 340       | 111       | 0.754         | 399       | 52        | 0.885         |
| startup    | 1344    | 1337      | 7         | 0.995         | 1048      | 296       | 0.780         | 1117      | 227       | 0.831         | 1098      | 246       | 0.817         |
| sunflow    | 225     | 225       | 0         | 1.000         | 200       | 25        | 0.889         | 200       | 25        | 0.889         | 214       | 11        | 0.951         |
| xml        | 513     | 513       | 0         | 1.000         | 315       | 198       | 0.614         | 407       | 106       | 0.793         | 459       | 54        | 0.895         |

<sup>1</sup> **Dynamic** denotes the number of dynamic records.

<sup>2</sup> *TP*, *FN* denote true positive, false negative of different algorithms, respectively.