Silvana M. Melo, Simone R. S. Souza and Paulo S. L. Souza*
University of Sao Paulo, ICMC-USP
Sao Carlos - SP, 668, Brazil
Email: *{morita, srocio, pssouza}@icmc.usp.br

REFERENCES


[29]


## Tabela I. Ferramentas de Teste de Software Concorrente.

<table>
<thead>
<tr>
<th>Técnica de teste</th>
<th>Paradigma</th>
<th>Ferramentas</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Baseada no domínio de entrada</strong></td>
<td>Memória compartilhada</td>
<td>DemonL [1], Oshajava [2], Tiddle [3], Relaxer [4], RaceFuzzer [5], Light64 [6], Rtest [7], IMUNIT [8], TMUnit [9], Concret [10], Best [11], LCT [12], CUTECUTE [13], MultiOtter [14], RichTest [15], Storm [16], Maple [17]</td>
</tr>
<tr>
<td><strong>Ambos</strong></td>
<td>Passagem de mensagem</td>
<td>ISP-GEM [18], TSO [19], TCgen [20], ATMTest [21], TransDPOK [22]</td>
</tr>
<tr>
<td><strong>Baseado em erros</strong></td>
<td>Memória compartilhada</td>
<td>Kivati [26], MultiRace [24], ThreadSanitizer [28], MutMut [27], ConMem [29], Ctnn [30], Light64 [6], Pike [12], SPin [33], Racez [34], Galara [35], Carisma [36], Jcute [37], Concrash [38], Contest [39], Epaj/Eprfj [40], Have [41], Penelope [42], RccJava [43], UPC-Check [44], Eraser [45], Enforce [46], MDAT [47]</td>
</tr>
<tr>
<td><strong>Passagem de mensagem</strong></td>
<td>Marmot [48], MPIRace-Check [49]</td>
<td></td>
</tr>
<tr>
<td><strong>Baseado no código</strong></td>
<td>Memória compartilhada</td>
<td>New JLInt [50], ValPthread [51], DeltaJava [52], P2I [53]</td>
</tr>
<tr>
<td><strong>Ambos</strong></td>
<td>Passagem de mensagem</td>
<td>ValMPI [54], ValPVM [55], Steps [56], CATS [57]</td>
</tr>
<tr>
<td><strong>Baseado em modelos</strong></td>
<td>Memória compartilhada</td>
<td>Vyrdmc [59], Chess [60], Cute/JCute [13], Fission [61], Bandera [62], TTC [63], TII [64], CDSChecker [65], Concrash [38], Concurit [60], SSTP [67], SearchFlibe [68], C2Petri [69], Gambit [70], InspecT [71]</td>
</tr>
<tr>
<td><strong>Passagem de mensagem</strong></td>
<td>VIP [72], EDA [75]</td>
<td></td>
</tr>
<tr>
<td><strong>Execução determinística</strong></td>
<td>Memória compartilhada</td>
<td>BugNet [76], Diheatracs [77], InstatiCheck [78], Kendo [79], FPDet [80], Conan [61], TMUnit [9], Dejavu [82], Direct [83], Titanium [84], Calfuzzier [85]</td>
</tr>
<tr>
<td><strong>Passagem de mensagem</strong></td>
<td>Viper [86], SpyLayer [87], ARPA [88], DoOp [89]</td>
<td></td>
</tr>
<tr>
<td><strong>Monitoramento</strong></td>
<td>Memória compartilhada</td>
<td>SyncTest [90], SAM [91]</td>
</tr>
<tr>
<td><strong>Passagem de mensagem</strong></td>
<td>MonitoringTool [92], JPAX [93]</td>
<td></td>
</tr>
</tbody>
</table>