

CSE 5331 Project 1 Policy Test Results

Buffer hit ratios for different policy (Buffer Size - 22)

| Policy/Test# | RANDOM | FIFO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Test 1 (just pin/unpin) | BHR: 0 Top 10pages and references: <table> <tr> <th>Array Page No.</th><th>No. of Loads</th><th>No. of Page hits</th></tr> <tr><td>9</td><td>2</td><td>0</td></tr> <tr><td>10</td><td>1</td><td>0</td></tr> <tr><td>11</td><td>1</td><td>0</td></tr> <tr><td>12</td><td>1</td><td>0</td></tr> <tr><td>13</td><td>1</td><td>0</td></tr> <tr><td>14</td><td>1</td><td>0</td></tr> <tr><td>15</td><td>1</td><td>0</td></tr> <tr><td>16</td><td>1</td><td>0</td></tr> <tr><td>17</td><td>1</td><td>0</td></tr> <tr><td>18</td><td>1</td><td>0</td></tr> </table> | Array Page No. | No. of Loads | No. of Page hits | 9 | 2 | 0 | 10 | 1 | 0 | 11 | 1 | 0 | 12 | 1 | 0 | 13 | 1 | 0 | 14 | 1 | 0 | 15 | 1 | 0 | 16 | 1 | 0 | 17 | 1 | 0 | 18 | 1 | 0 | BHR: 0 Top 10pages and references: <table> <tr> <th>Array Page No.</th><th>No. of Loads</th><th>No. of Page hits</th></tr> <tr><td>9</td><td>2</td><td>0</td></tr> <tr><td>10</td><td>1</td><td>0</td></tr> <tr><td>11</td><td>1</td><td>0</td></tr> <tr><td>12</td><td>1</td><td>0</td></tr> <tr><td>13</td><td>1</td><td>0</td></tr> <tr><td>14</td><td>1</td><td>0</td></tr> <tr><td>15</td><td>1</td><td>0</td></tr> <tr><td>16</td><td>1</td><td>0</td></tr> <tr><td>17</td><td>1</td><td>0</td></tr> <tr><td>18</td><td>1</td><td>0</td></tr> </table> | Array Page No. | No. of Loads | No. of Page hits | 9 | 2 | 0 | 10 | 1 | 0 | 11 | 1 | 0 | 12 | 1 | 0 | 13 | 1 | 0 | 14 | 1 | 0 | 15 | 1 | 0 | 16 | 1 | 0 | 17 | 1 | 0 | 18 | 1 | 0 |
| Array Page No. | No. of Loads | No. of Page hits | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 2 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 1 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | 1 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 1 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | 1 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | 1 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 1 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | 1 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | 1 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | 1 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Array Page No. | No. of Loads | No. of Page hits | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 2 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 1 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | 1 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 1 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | 1 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | 1 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 1 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | 1 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | 1 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | 1 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test 2 (favors MRU) | BHR: 2.65559 Top 10pages and references: <table> <tr> <th>Array Page No.</th><th>No. of Loads</th><th>No. of Page hits</th></tr> <tr><td>41</td><td>3</td><td>14</td></tr> <tr><td>62</td><td>3</td><td>14</td></tr> <tr><td>71</td><td>3</td><td>14</td></tr> <tr><td>100</td><td>3</td><td>14</td></tr> <tr><td>81</td><td>3</td><td>13</td></tr> <tr><td>84</td><td>3</td><td>13</td></tr> <tr><td>94</td><td>3</td><td>13</td></tr> <tr><td>27</td><td>3</td><td>12</td></tr> <tr><td>53</td><td>3</td><td>12</td></tr> <tr><td>57</td><td>3</td><td>12</td></tr> </table> | Array Page No. | No. of Loads | No. of Page hits | 41 | 3 | 14 | 62 | 3 | 14 | 71 | 3 | 14 | 100 | 3 | 14 | 81 | 3 | 13 | 84 | 3 | 13 | 94 | 3 | 13 | 27 | 3 | 12 | 53 | 3 | 12 | 57 | 3 | 12 | BHR: 2.65559 Top 10pages and references: <table> <tr> <th>Array Page No.</th><th>No. of Loads</th><th>No. of Page hits</th></tr> <tr><td>41</td><td>3</td><td>14</td></tr> <tr><td>62</td><td>3</td><td>14</td></tr> <tr><td>71</td><td>3</td><td>14</td></tr> <tr><td>100</td><td>3</td><td>14</td></tr> <tr><td>81</td><td>3</td><td>13</td></tr> <tr><td>84</td><td>3</td><td>13</td></tr> <tr><td>94</td><td>3</td><td>13</td></tr> <tr><td>27</td><td>3</td><td>12</td></tr> <tr><td>53</td><td>3</td><td>12</td></tr> <tr><td>57</td><td>3</td><td>12</td></tr> </table> | Array Page No. | No. of Loads | No. of Page hits | 41 | 3 | 14 | 62 | 3 | 14 | 71 | 3 | 14 | 100 | 3 | 14 | 81 | 3 | 13 | 84 | 3 | 13 | 94 | 3 | 13 | 27 | 3 | 12 | 53 | 3 | 12 | 57 | 3 | 12 |
| Array Page No. | No. of Loads | No. of Page hits | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 41 | 3 | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 62 | 3 | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 71 | 3 | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100 | 3 | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 81 | 3 | 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 84 | 3 | 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 94 | 3 | 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | 3 | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 53 | 3 | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 57 | 3 | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Array Page No. | No. of Loads | No. of Page hits | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 41 | 3 | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 62 | 3 | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 71 | 3 | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100 | 3 | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 81 | 3 | 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 84 | 3 | 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 94 | 3 | 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | 3 | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 53 | 3 | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 57 | 3 | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test 3 (multiple pins/unpins) | BHR: 2.65526 Top 10pages and references: <table> <tr> <th>Array Page No.</th><th>No. of Loads</th><th>No. of Page hits</th></tr> <tr><td>100</td><td>3</td><td>14</td></tr> <tr><td>71</td><td>3</td><td>14</td></tr> <tr><td>62</td><td>3</td><td>14</td></tr> <tr><td>41</td><td>3</td><td>14</td></tr> <tr><td>94</td><td>3</td><td>13</td></tr> </table> | Array Page No. | No. of Loads | No. of Page hits | 100 | 3 | 14 | 71 | 3 | 14 | 62 | 3 | 14 | 41 | 3 | 14 | 94 | 3 | 13 | BHR: 2.79508 Top 10pages and references: <table> <tr> <th>Array Page No.</th><th>No. of Loads</th><th>No. of Page hits</th></tr> <tr><td>9900</td><td>1</td><td>14</td></tr> <tr><td>100</td><td>3</td><td>14</td></tr> <tr><td>71</td><td>3</td><td>14</td></tr> <tr><td>62</td><td>3</td><td>14</td></tr> <tr><td>41</td><td>3</td><td>14</td></tr> </table> | Array Page No. | No. of Loads | No. of Page hits | 9900 | 1 | 14 | 100 | 3 | 14 | 71 | 3 | 14 | 62 | 3 | 14 | 41 | 3 | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Array Page No. | No. of Loads | No. of Page hits | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100 | 3 | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 71 | 3 | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 62 | 3 | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 41 | 3 | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 94 | 3 | 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Array Page No. | No. of Loads | No. of Page hits | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9900 | 1 | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100 | 3 | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 71 | 3 | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 62 | 3 | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 41 | 3 | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| | 84 | 3 | 13 | 94 | 3 | 13 |
| | 81 | 3 | 13 | 84 | 3 | 13 |
| | 9900 | 3 | 12 | 81 | 3 | 13 |
| | 112 | 3 | 12 | 112 | 3 | 12 |
| | 57 | 3 | 12 | 57 | 3 | 12 |
| Test 4 (Random) | BHR: 27.81818 | | | BHR: 30.70000 | | |
| | Top 10pages and references | | | Top 10pages and references | | |
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| | 16 | 1 | 36 | 16 | 1 | 36 |
| | 12 | 1 | 35 | 12 | 1 | 35 |
| | 10 | 1 | 32 | 9 | 1 | 32 |
| | 14 | 1 | 32 | 10 | 1 | 32 |
| | 17 | 1 | 32 | 14 | 1 | 32 |
| | 9 | 2 | 31 | 17 | 1 | 32 |
| | 11 | 1 | 28 | 11 | 1 | 28 |
| | 22 | 1 | 27 | 22 | 1 | 27 |
| | 24 | 1 | 27 | 24 | 1 | 27 |
| | 20 | 1 | 26 | 20 | 1 | 26 |