**Page Replacement Algorithms**

|  |  |  |
| --- | --- | --- |
| FIFO | LRU | OPT/MIN |

Table 1 **3** Page Frames

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *T /Sequence* | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| *Page* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Mem Frame 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Mem Frame 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Mem Frame 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Page Fault? |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Replacement? |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Summary | Page Faults = | | | | | Page Replacements = | | | | | Miss Ratio = / = % | | | | | Hit Ratio = / = % | | | | |

Sequence /T: 页面访问序列 | Frame: 内存物理块 | Page Faults: 缺页中断 | Page Replacements: 页面置换 | Miss Ratio: 缺页率 | **请求分页式虚拟存储管理**

|  |  |  |
| --- | --- | --- |
| FIFO | LRU | OPT/MIN |

Table 2 **4** Page Frames

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *T /Sequence* | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| *Page* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Mem Frame 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Mem Frame 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Mem Frame 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Mem Frame 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Page Fault? |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Replacement? |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Summary | Page Faults = | | | | | Page Replacements = | | | | | Miss Ratio = / = % | | | | | Hit Ratio = / = % | | | | |

**Page Replacement Algorithms**

|  |  |  |
| --- | --- | --- |
| FIFO | LRU | OPT/MIN |

Table 1 **3** Page Frames

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *T /Sequence* | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| *Page* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Mem Frame 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Mem Frame 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Mem Frame 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Page Fault? |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Replacement? |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Summary | Page Faults = | | | | | Page Replacements = | | | | | Miss Ratio = / = % | | | | | Hit Ratio = / = % | | | | |

Sequence /T: 页面访问序列 | Frame: 内存物理块 | Page Faults: 缺页中断 | Page Replacements: 页面置换 | Miss Ratio: 缺页率 | **请求分页式虚拟存储管理**

|  |  |  |
| --- | --- | --- |
| FIFO | LRU | OPT/MIN |

Table 2 **4** Page Frames

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *T /Sequence* | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| *Page* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Mem Frame 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Mem Frame 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Mem Frame 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Mem Frame 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Page Fault? |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Replacement? |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Summary | Page Faults = | | | | | Page Replacements = | | | | | Miss Ratio = / = % | | | | | Hit Ratio = / = % | | | | |