

Hierarchical Paging:

Given the following 2-level hierarchical page tables, translate the following addresses. Addresses are four decimal digits, with the first digit representing the first index, the second digit representing the second index, and the last two digits representing the offset.

0	7192	0005
1	7244	0005
2	7396	0005
3	7680	0005
4	7728	0005

7192

0	21xx
1	33xx
2	47xx
3	53xx
4	66xx

7244

0	00xx
1	01xx
2	13xx
3	17xx
4	14xx

7396

0	62xx
1	55xx
2	44xx
3	37xx
4	81xx

7680

0	09xx
1	10xx
2	32xx
3	15xx
4	18xx

7728

0	08xx
1	55xx
2	02xx
3	07xx
4	96xx

Virtual	Real
2121	
3841	
4288	
8160	
2733	
9940	
0144	
1377	
2289	
3148	

Segmentation with paging

Virtual Memory

Demand paging

Address traces

Paging files

Performance of demand paging

Copy on write

Page replacement