

| Challenge | Tradeoff | THM | HMA | MemPod |
|-----------------------|-------------------------------------|--|--|---|
| Page Relocation | <i>Flexibility / Time</i> | Only 1 Candidate <i>Min / Very Low</i> | No Restrictions <i>Max / High</i> | Intra-Pod Migration <i>High / Medium</i> |
| Remap Table Size | <i>Flexibility / Area</i> | 1 entry per fast page (3.5MB) <i>Min / Medium</i> | No remap table <i>Max / Min</i> | 1 entry per page (23.6 MB) <i>High / Max</i> |
| Activity Tracking | <i>Accuracy / Area</i> | 8 bits per fast page (64kB) <i>Medium / Low</i> | 16 bits per page (9MB) <i>Max / Max</i> | 128 MEA entries (1.56 kB) <i>High / Very Low</i> |
| Migration Trigger | <i>N/A</i> | Threshold | Interval | Interval |
| Tracking Organization | <i>Simplicity / Parallelization</i> | Fully centralized (Serialized requests) <i>High / Min</i> | Fully distributed <i>High / Max</i> | Semi-distributed (Pods operate independently) <i>High / High</i> |
| Migration Driver | <i>Latency</i> | CPU <i>High</i> | CPU (OS) <i>Max</i> | Pod <i>Low</i> |
| Migration Cost | <i>Time</i> | HW cost + CPU time <i>Medium</i> | HW + SW + cold TLBs + CPU <i>Max</i> | HW <i>Min</i> |