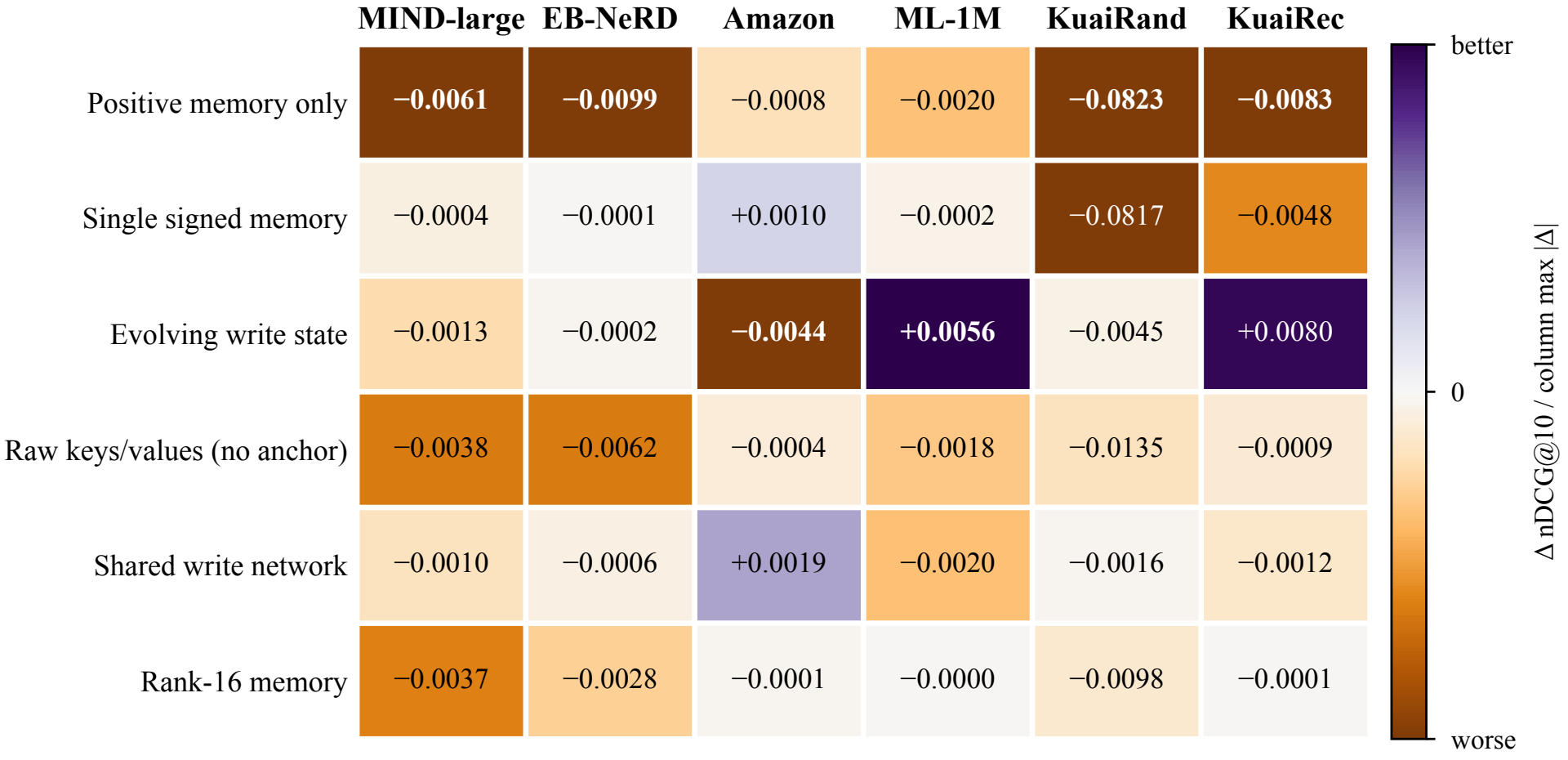

MIND-large
EB-NeRD
Amazon
ML-1M
KuaiRand
KuaiRec
Positive memory only
−0.0061
−0.0099
−0.0008
−0.0020
−0.0823
−0.0083
Single signed memory
−0.0004
−0.0001
+0.0010
−0.0002
−0.0817
−0.0048
Evolving write state
−0.0013
−0.0002
−0.0044
+0.0056
−0.0045
+0.0080
Raw keys/values (no anchor)
−0.0038
−0.0062
−0.0004
−0.0018
−0.0135
−0.0009
Shared write network
−0.0010
−0.0006
+0.0019
−0.0020
−0.0016
−0.0012
Rank-16 memory
−0.0037
−0.0028
−0.0001
−0.0000
−0.0098
−0.0001
better
0
worse
Δ nDCG@10 / column max |Δ|