

Results for HardMax $t = 5000$ Needle In Haystack - 0.5 50 free obs $K = 10$

	Thompson Sampling	Dynamic Epsilon Greedy	DynamicGreedy
Thompson Sampling	0.18 +/- 0.042 0.14 (0.12, 0.16) Extreme Shares: 99 %	0.27 +/- 0.049 0.19 (0.16, 0.22) Extreme Shares: 98 %	0.37 +/- 0.052 0.21 (0.18, 0.25) Extreme Shares: 93 %
Dynamic Epsilon Greedy	0.1 +/- 0.033 0.082 (0.07, 0.097) Extreme Shares: 98 %	0.19 +/- 0.042 0.14 (0.12, 0.16) Extreme Shares: 93 %	0.33 +/- 0.05 0.19 (0.16, 0.23) Extreme Shares: 87 %
DynamicGreedy	0.054 +/- 0.024 0.043 (0.037, 0.051) Extreme Shares: 98 %	0.11 +/- 0.031 0.076 (0.065, 0.09) Extreme Shares: 90 %	0.25 +/- 0.042 0.14 (0.12, 0.16) Extreme Shares: 79 %

Results for HardMax $t = 5000$ Heavy Tail 50 free obs $K = 10$

	Thompson Sampling	Dynamic Epsilon Greedy	DynamicGreedy
Thompson Sampling	0.023 +/- 0.017 0.023 (0.02, 0.027) Extreme Shares: 100 %	0.046 +/- 0.024 0.043 (0.037, 0.051) Extreme Shares: 100 %	0.11 +/- 0.034 0.091 (0.078, 0.11) Extreme Shares: 97 %
Dynamic Epsilon Greedy	0.17 +/- 0.042 0.14 (0.12, 0.16) Extreme Shares: 99 %	0.13 +/- 0.034 0.088 (0.075, 0.1) Extreme Shares: 88 %	0.14 +/- 0.036 0.098 (0.084, 0.12) Extreme Shares: 90 %
DynamicGreedy	0.22 +/- 0.046 0.17 (0.14, 0.2) Extreme Shares: 99 %	0.2 +/- 0.042 0.14 (0.12, 0.16) Extreme Shares: 91 %	0.16 +/- 0.033 0.082 (0.07, 0.097) Extreme Shares: 74 %

Results for HardMax $t = 5000$.5/.7 Random Draw 50 free obs $K = 10$

	Thompson Sampling	Dynamic Epsilon Greedy	DynamicGreedy
Thompson Sampling	0.19 +/- 0.038 0.11 (0.097, 0.13) Extreme Shares: 82 %	0.17 +/- 0.037 0.1 (0.09, 0.12) Extreme Shares: 82 %	0.21 +/- 0.04 0.12 (0.11, 0.15) Extreme Shares: 82 %
Dynamic Epsilon Greedy	0.25 +/- 0.042 0.14 (0.12, 0.16) Extreme Shares: 77 %	0.24 +/- 0.04 0.12 (0.11, 0.15) Extreme Shares: 73 %	0.22 +/- 0.039 0.12 (0.099, 0.14) Extreme Shares: 72 %
DynamicGreedy	0.28 +/- 0.045 0.16 (0.13, 0.19) Extreme Shares: 80 %	0.2 +/- 0.036 0.098 (0.084, 0.12) Extreme Shares: 71 %	0.22 +/- 0.038 0.11 (0.097, 0.13) Extreme Shares: 73 %

Results for HardMax $t = 5000$ Uniform 50 free obs $K = 10$

	Thompson Sampling	Dynamic Epsilon Greedy	DynamicGreedy
Thompson Sampling	0.13 +/- 0.037 0.1 (0.089, 0.12) Extreme Shares: 98 %	0.16 +/- 0.039 0.12 (0.1, 0.14) Extreme Shares: 95 %	0.15 +/- 0.037 0.11 (0.093, 0.13) Extreme Shares: 92 %
Dynamic Epsilon Greedy	0.25 +/- 0.047 0.17 (0.15, 0.2) Extreme Shares: 93 %	0.19 +/- 0.04 0.12 (0.11, 0.14) Extreme Shares: 85 %	0.21 +/- 0.04 0.12 (0.1, 0.14) Extreme Shares: 80 %
DynamicGreedy	0.24 +/- 0.045 0.16 (0.14, 0.19) Extreme Shares: 90 %	0.16 +/- 0.036 0.099 (0.085, 0.12) Extreme Shares: 84 %	0.2 +/- 0.037 0.1 (0.089, 0.12) Extreme Shares: 73 %

Results for HardMax t = 5000 Needle In Haystack - 0.5 200 free obs K = 10

	Thompson Sampling	Dynamic Epsilon Greedy	DynamicGreedy
Thompson Sampling	0.083 +/- 0.03 0.069 (0.06, 0.082) Extreme Shares: 99 %	0.19 +/- 0.044 0.15 (0.13, 0.17) Extreme Shares: 98 %	0.34 +/- 0.051 0.2 (0.17, 0.24) Extreme Shares: 90 %
Dynamic Epsilon Greedy	0.071 +/- 0.028 0.06 (0.051, 0.071) Extreme Shares: 98 %	0.2 +/- 0.043 0.14 (0.12, 0.17) Extreme Shares: 93 %	0.28 +/- 0.048 0.18 (0.15, 0.21) Extreme Shares: 87 %
DynamicGreedy	0.028 +/- 0.016 0.021 (0.018, 0.025) Extreme Shares: 99 %	0.1 +/- 0.032 0.077 (0.066, 0.091) Extreme Shares: 95 %	0.22 +/- 0.041 0.13 (0.11, 0.15) Extreme Shares: 81 %

Results for HardMax t = 5000 Heavy Tail 200 free obs K = 10

	Thompson Sampling	Dynamic Epsilon Greedy	DynamicGreedy
Thompson Sampling	0.0067 +/- 0.0092 0.0066 (0.0056, 0.0078) Extreme Shares: 100 %	0.023 +/- 0.017 0.021 (0.018, 0.025) Extreme Shares: 99 %	0.064 +/- 0.027 0.055 (0.047, 0.065) Extreme Shares: 97 %
Dynamic Epsilon Greedy	0.024 +/- 0.015 0.017 (0.015, 0.02) Extreme Shares: 98 %	0.13 +/- 0.034 0.088 (0.076, 0.1) Extreme Shares: 86 %	0.14 +/- 0.036 0.099 (0.085, 0.12) Extreme Shares: 89 %
DynamicGreedy	0.063 +/- 0.024 0.043 (0.037, 0.051) Extreme Shares: 93 %	0.19 +/- 0.041 0.13 (0.11, 0.16) Extreme Shares: 91 %	0.15 +/- 0.032 0.08 (0.069, 0.095) Extreme Shares: 77 %

Results for HardMax t = 5000 .5/.7 Random Draw 200 free obs K = 10

	Thompson Sampling	Dynamic Epsilon Greedy	DynamicGreedy
Thompson Sampling	0.15 +/- 0.034 0.087 (0.075, 0.1) Extreme Shares: 81 %	0.14 +/- 0.032 0.081 (0.069, 0.096) Extreme Shares: 81 %	0.18 +/- 0.036 0.099 (0.085, 0.12) Extreme Shares: 76 %
Dynamic Epsilon Greedy	0.2 +/- 0.038 0.11 (0.095, 0.13) Extreme Shares: 75 %	0.15 +/- 0.032 0.081 (0.07, 0.096) Extreme Shares: 78 %	0.22 +/- 0.037 0.11 (0.093, 0.13) Extreme Shares: 70 %
DynamicGreedy	0.24 +/- 0.04 0.12 (0.11, 0.15) Extreme Shares: 74 %	0.19 +/- 0.035 0.096 (0.083, 0.11) Extreme Shares: 74 %	0.2 +/- 0.037 0.11 (0.092, 0.13) Extreme Shares: 74 %

Results for HardMax t = 5000 Uniform 200 free obs K = 10

	Thompson Sampling	Dynamic Epsilon Greedy	DynamicGreedy
Thompson Sampling	0.055 +/- 0.023 0.042 (0.036, 0.05) Extreme Shares: 95 %	0.11 +/- 0.033 0.083 (0.071, 0.098) Extreme Shares: 93 %	0.17 +/- 0.038 0.11 (0.098, 0.14) Extreme Shares: 88 %
Dynamic Epsilon Greedy	0.13 +/- 0.035 0.093 (0.08, 0.11) Extreme Shares: 90 %	0.12 +/- 0.031 0.077 (0.066, 0.091) Extreme Shares: 86 %	0.19 +/- 0.039 0.12 (0.1, 0.14) Extreme Shares: 85 %
DynamicGreedy	0.087 +/- 0.028 0.059 (0.051, 0.07) Extreme Shares: 92 %	0.12 +/- 0.031 0.073 (0.063, 0.087) Extreme Shares: 85 %	0.18 +/- 0.036 0.098 (0.084, 0.12) Extreme Shares: 77 %