

## Results for HardMax t = 1000 Needle In Haystack High

	ThompsonSampling	DynamicEpsilonGreedy	DynamicGreedy
ThompsonSampling	<b>0.11</b> +/- 0.023 0.066 (0.059, 0.075) Extreme Shares: 88 %	<b>0.15</b> +/- 0.028 0.1 (0.092, 0.12) Extreme Shares: 90 %	<b>0.23</b> +/- 0.034 0.15 (0.13, 0.17) Extreme Shares: 87 %
DynamicEpsilonGreedy	<b>0.1</b> +/- 0.023 0.066 (0.059, 0.075) Extreme Shares: 89 %	<b>0.17</b> +/- 0.029 0.11 (0.1, 0.13) Extreme Shares: 85 %	<b>0.27</b> +/- 0.036 0.17 (0.15, 0.19) Extreme Shares: 86 %
DynamicGreedy	<b>0.11</b> +/- 0.022 0.063 (0.056, 0.072) Extreme Shares: 85 %	<b>0.16</b> +/- 0.029 0.11 (0.096, 0.12) Extreme Shares: 87 %	<b>0.23</b> +/- 0.033 0.14 (0.13, 0.16) Extreme Shares: 85 %

## Results for HardMaxWithRandom t = 1000 Needle In Haystack High

	ThompsonSampling	DynamicEpsilonGreedy	DynamicGreedy
ThompsonSampling	<b>0.17</b> +/- 0.022 0.064 (0.057, 0.073) Extreme Shares: 72 %	<b>0.24</b> +/- 0.028 0.1 (0.091, 0.12) Extreme Shares: 69 %	<b>0.35</b> +/- 0.034 0.15 (0.14, 0.17) Extreme Shares: 71 %
DynamicEpsilonGreedy	<b>0.24</b> +/- 0.026 0.091 (0.08, 0.1) Extreme Shares: 63 %	<b>0.26</b> +/- 0.029 0.11 (0.098, 0.13) Extreme Shares: 67 %	<b>0.37</b> +/- 0.033 0.14 (0.12, 0.16) Extreme Shares: 62 %
DynamicGreedy	<b>0.21</b> +/- 0.025 0.079 (0.07, 0.09) Extreme Shares: 65 %	<b>0.28</b> +/- 0.03 0.11 (0.1, 0.13) Extreme Shares: 66 %	<b>0.37</b> +/- 0.033 0.14 (0.13, 0.16) Extreme Shares: 64 %

## Results for SoftMax t = 1000 Needle In Haystack High

	ThompsonSampling	DynamicEpsilonGreedy	DynamicGreedy
ThompsonSampling	<b>0.43</b> +/- 0.008 0.0082 (0.0073, 0.0093) Extreme Shares: 0 %	<b>0.48</b> +/- 0.012 0.019 (0.016, 0.021) Extreme Shares: 0 %	<b>0.51</b> +/- 0.016 0.031 (0.028, 0.036) Extreme Shares: 0 %
DynamicEpsilonGreedy	<b>0.41</b> +/- 0.011 0.017 (0.015, 0.019) Extreme Shares: 0 %	<b>0.44</b> +/- 0.014 0.026 (0.023, 0.03) Extreme Shares: 0 %	<b>0.51</b> +/- 0.017 0.039 (0.034, 0.044) Extreme Shares: 0 %
DynamicGreedy	<b>0.4</b> +/- 0.012 0.02 (0.018, 0.023) Extreme Shares: 0 %	<b>0.44</b> +/- 0.015 0.031 (0.027, 0.035) Extreme Shares: 0.2 %	<b>0.47</b> +/- 0.018 0.04 (0.035, 0.045) Extreme Shares: 0 %

## Results for HardMax t = 1000 Heavy Tail

	ThompsonSampling	DynamicEpsilonGreedy	DynamicGreedy
ThompsonSampling	<b>0.052</b> +/- 0.016 0.034 (0.03, 0.039) Extreme Shares: 93 %	<b>0.09</b> +/- 0.023 0.066 (0.058, 0.075) Extreme Shares: 93 %	<b>0.11</b> +/- 0.025 0.079 (0.07, 0.089) Extreme Shares: 92 %
DynamicEpsilonGreedy	<b>0.082</b> +/- 0.019 0.045 (0.04, 0.051) Extreme Shares: 86 %	<b>0.15</b> +/- 0.026 0.085 (0.075, 0.096) Extreme Shares: 81 %	<b>0.16</b> +/- 0.026 0.086 (0.076, 0.098) Extreme Shares: 78 %
DynamicGreedy	<b>0.14</b> +/- 0.026 0.085 (0.076, 0.097) Extreme Shares: 82 %	<b>0.21</b> +/- 0.031 0.12 (0.11, 0.14) Extreme Shares: 81 %	<b>0.17</b> +/- 0.027 0.093 (0.083, 0.11) Extreme Shares: 78 %

## Results for HardMaxWithRandom t = 1000 Heavy Tail

	ThompsonSampling	DynamicEpsilonGreedy	DynamicGreedy
ThompsonSampling	<b>0.11</b> +/- 0.017 0.04 (0.035, 0.045) Extreme Shares: 80 %	<b>0.19</b> +/- 0.024 0.077 (0.069, 0.088) Extreme Shares: 71 %	<b>0.22</b> +/- 0.028 0.1 (0.089, 0.11) Extreme Shares: 75 %
DynamicEpsilonGreedy	<b>0.17</b> +/- 0.022 0.06 (0.054, 0.069) Extreme Shares: 67 %	<b>0.25</b> +/- 0.027 0.092 (0.082, 0.1) Extreme Shares: 62 %	<b>0.24</b> +/- 0.027 0.091 (0.081, 0.1) Extreme Shares: 63 %
DynamicGreedy	<b>0.21</b> +/- 0.025 0.08 (0.071, 0.09) Extreme Shares: 65 %	<b>0.31</b> +/- 0.029 0.11 (0.098, 0.13) Extreme Shares: 56 %	<b>0.29</b> +/- 0.029 0.11 (0.094, 0.12) Extreme Shares: 59 %

## Results for SoftMax t = 1000 Heavy Tail

	ThompsonSampling	DynamicEpsilonGreedy	DynamicGreedy
ThompsonSampling	<b>0.44</b> +/- 0.0063 0.0052 (0.0046, 0.0059) Extreme Shares: 0 %	<b>0.49</b> +/- 0.0075 0.0072 (0.0064, 0.0082) Extreme Shares: 0 %	<b>0.48</b> +/- 0.011 0.017 (0.015, 0.019) Extreme Shares: 0 %
DynamicEpsilonGreedy	<b>0.42</b> +/- 0.008 0.0083 (0.0073, 0.0094) Extreme Shares: 0 %	<b>0.45</b> +/- 0.0093 0.011 (0.01, 0.013) Extreme Shares: 0 %	<b>0.47</b> +/- 0.013 0.02 (0.018, 0.023) Extreme Shares: 0.4 %
DynamicGreedy	<b>0.45</b> +/- 0.0098 0.012 (0.011, 0.014) Extreme Shares: 0 %	<b>0.47</b> +/- 0.012 0.017 (0.015, 0.019) Extreme Shares: 0.2 %	<b>0.48</b> +/- 0.011 0.016 (0.014, 0.018) Extreme Shares: 0 %

## Results for HardMax t = 1000 Uniform

	ThompsonSampling	DynamicEpsilonGreedy	DynamicGreedy
ThompsonSampling	<b>0.13</b> +/- 0.023 0.071 (0.063, 0.08) Extreme Shares: 81 %	<b>0.17</b> +/- 0.029 0.11 (0.096, 0.12) Extreme Shares: 84 %	<b>0.21</b> +/- 0.032 0.13 (0.11, 0.15) Extreme Shares: 82 %
DynamicEpsilonGreedy	<b>0.15</b> +/- 0.025 0.083 (0.074, 0.095) Extreme Shares: 79 %	<b>0.16</b> +/- 0.027 0.095 (0.084, 0.11) Extreme Shares: 82 %	<b>0.22</b> +/- 0.031 0.13 (0.11, 0.15) Extreme Shares: 81 %
DynamicGreedy	<b>0.15</b> +/- 0.026 0.087 (0.077, 0.099) Extreme Shares: 80 %	<b>0.18</b> +/- 0.029 0.11 (0.094, 0.12) Extreme Shares: 80 %	<b>0.24</b> +/- 0.032 0.13 (0.12, 0.15) Extreme Shares: 74 %

## Results for HardMaxWithRandom t = 1000 Uniform

	ThompsonSampling	DynamicEpsilonGreedy	DynamicGreedy
ThompsonSampling	<b>0.24</b> +/- 0.025 0.082 (0.073, 0.094) Extreme Shares: 57 %	<b>0.27</b> +/- 0.028 0.1 (0.09, 0.12) Extreme Shares: 58 %	<b>0.32</b> +/- 0.03 0.12 (0.11, 0.13) Extreme Shares: 57 %
DynamicEpsilonGreedy	<b>0.27</b> +/- 0.026 0.089 (0.079, 0.1) Extreme Shares: 53 %	<b>0.28</b> +/- 0.026 0.088 (0.078, 0.1) Extreme Shares: 50 %	<b>0.35</b> +/- 0.03 0.12 (0.11, 0.14) Extreme Shares: 53 %
DynamicGreedy	<b>0.28</b> +/- 0.027 0.091 (0.081, 0.1) Extreme Shares: 52 %	<b>0.31</b> +/- 0.028 0.1 (0.091, 0.12) Extreme Shares: 51 %	<b>0.34</b> +/- 0.03 0.12 (0.1, 0.13) Extreme Shares: 55 %

## Results for SoftMax t = 1000 Uniform

	ThompsonSampling	DynamicEpsilonGreedy	DynamicGreedy
ThompsonSampling	<b>0.45</b> +/- 0.0081 0.0084 (0.0075, 0.0096) Extreme Shares: 0 %	<b>0.47</b> +/- 0.0096 0.012 (0.011, 0.014) Extreme Shares: 0 %	<b>0.5</b> +/- 0.012 0.019 (0.017, 0.022) Extreme Shares: 0 %
DynamicEpsilonGreedy	<b>0.45</b> +/- 0.0095 0.012 (0.01, 0.013) Extreme Shares: 0 %	<b>0.46</b> +/- 0.01 0.014 (0.013, 0.016) Extreme Shares: 0 %	<b>0.49</b> +/- 0.014 0.024 (0.021, 0.027) Extreme Shares: 0 %
DynamicGreedy	<b>0.44</b> +/- 0.011 0.016 (0.014, 0.018) Extreme Shares: 0 %	<b>0.47</b> +/- 0.012 0.018 (0.016, 0.02) Extreme Shares: 0.2 %	<b>0.47</b> +/- 0.013 0.023 (0.02, 0.026) Extreme Shares: 0 %