

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

	ThompsonSampling	DynamicEpsilonGreedy	DynamicGreedy
ThompsonSampling	<b>0.18</b> +/- 0.029 0.11 (0.098, 0.13) Extreme Shares: 85 %	<b>0.23</b> +/- 0.034 0.15 (0.13, 0.17) Extreme Shares: 90 %	<b>0.34</b> +/- 0.039 0.19 (0.17, 0.22) Extreme Shares: 87 %
DynamicEpsilonGreedy	<b>0.17</b> +/- 0.029 0.11 (0.095, 0.12) Extreme Shares: 88 %	<b>0.26</b> +/- 0.035 0.16 (0.14, 0.18) Extreme Shares: 86 %	<b>0.33</b> +/- 0.038 0.18 (0.16, 0.21) Extreme Shares: 83 %
DynamicGreedy	<b>0.18</b> +/- 0.03 0.12 (0.11, 0.14) Extreme Shares: 90 %	<b>0.25</b> +/- 0.035 0.16 (0.14, 0.18) Extreme Shares: 88 %	<b>0.31</b> +/- 0.037 0.17 (0.15, 0.2) Extreme Shares: 82 %

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

	ThompsonSampling	DynamicEpsilonGreedy	DynamicGreedy
ThompsonSampling	<b>0.26</b> +/- 0.03 0.11 (0.1, 0.13) Extreme Shares: 68 %	<b>0.35</b> +/- 0.034 0.15 (0.13, 0.17) Extreme Shares: 67 %	<b>0.46</b> +/- 0.036 0.17 (0.15, 0.19) Extreme Shares: 68 %
DynamicEpsilonGreedy	<b>0.3</b> +/- 0.031 0.12 (0.11, 0.14) Extreme Shares: 65 %	<b>0.36</b> +/- 0.034 0.15 (0.13, 0.17) Extreme Shares: 66 %	<b>0.45</b> +/- 0.035 0.16 (0.14, 0.18) Extreme Shares: 61 %
DynamicGreedy	<b>0.29</b> +/- 0.03 0.12 (0.11, 0.14) Extreme Shares: 66 %	<b>0.38</b> +/- 0.034 0.15 (0.13, 0.17) Extreme Shares: 67 %	<b>0.4</b> +/- 0.034 0.15 (0.13, 0.17) Extreme Shares: 61 %

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

	ThompsonSampling	DynamicEpsilonGreedy	DynamicGreedy
ThompsonSampling	<b>0.47</b> +/- 0.0093 0.011 (0.01, 0.013) Extreme Shares: 0 %	<b>0.49</b> +/- 0.012 0.02 (0.018, 0.023) Extreme Shares: 0 %	<b>0.53</b> +/- 0.014 0.027 (0.024, 0.03) Extreme Shares: 0 %
DynamicEpsilonGreedy	<b>0.45</b> +/- 0.012 0.019 (0.017, 0.022) Extreme Shares: 0 %	<b>0.49</b> +/- 0.015 0.029 (0.026, 0.033) Extreme Shares: 0 %	<b>0.51</b> +/- 0.017 0.036 (0.032, 0.041) Extreme Shares: 0 %
DynamicGreedy	<b>0.42</b> +/- 0.015 0.029 (0.026, 0.033) Extreme Shares: 0 %	<b>0.46</b> +/- 0.016 0.035 (0.031, 0.039) Extreme Shares: 0 %	<b>0.48</b> +/- 0.017 0.039 (0.034, 0.044) Extreme Shares: 0 %

## Results for HardMax t = 1000 Heavy Tail

	ThompsonSampling	DynamicEpsilonGreedy	DynamicGreedy
ThompsonSampling	<b>0.056</b> +/- 0.018 0.04 (0.035, 0.045) Extreme Shares: 94 %	<b>0.12</b> +/- 0.026 0.088 (0.078, 0.1) Extreme Shares: 93 %	<b>0.15</b> +/- 0.029 0.11 (0.1, 0.13) Extreme Shares: 94 %
DynamicEpsilonGreedy	<b>0.17</b> +/- 0.028 0.11 (0.093, 0.12) Extreme Shares: 85 %	<b>0.21</b> +/- 0.03 0.12 (0.11, 0.14) Extreme Shares: 80 %	<b>0.18</b> +/- 0.029 0.11 (0.099, 0.13) Extreme Shares: 82 %
DynamicGreedy	<b>0.23</b> +/- 0.034 0.15 (0.13, 0.17) Extreme Shares: 87 %	<b>0.26</b> +/- 0.034 0.15 (0.13, 0.17) Extreme Shares: 81 %	<b>0.22</b> +/- 0.03 0.12 (0.1, 0.13) Extreme Shares: 74 %

## Results for HardMaxWithRandom t = 1000 Heavy Tail

	ThompsonSampling	DynamicEpsilonGreedy	DynamicGreedy
ThompsonSampling	<b>0.16</b> +/- 0.024 0.074 (0.066, 0.085) Extreme Shares: 82 %	<b>0.22</b> +/- 0.028 0.1 (0.09, 0.11) Extreme Shares: 77 %	<b>0.23</b> +/- 0.029 0.11 (0.098, 0.13) Extreme Shares: 77 %
DynamicEpsilonGreedy	<b>0.23</b> +/- 0.027 0.094 (0.083, 0.11) Extreme Shares: 67 %	<b>0.3</b> +/- 0.029 0.11 (0.097, 0.12) Extreme Shares: 58 %	<b>0.27</b> +/- 0.028 0.1 (0.093, 0.12) Extreme Shares: 60 %
DynamicGreedy	<b>0.33</b> +/- 0.033 0.14 (0.13, 0.16) Extreme Shares: 69 %	<b>0.4</b> +/- 0.033 0.14 (0.12, 0.16) Extreme Shares: 55 %	<b>0.32</b> +/- 0.029 0.11 (0.097, 0.12) Extreme Shares: 53 %

## Results for SoftMax t = 1000 Heavy Tail

	ThompsonSampling	DynamicEpsilonGreedy	DynamicGreedy
ThompsonSampling	<b>0.46</b> +/- 0.0062 0.0049 (0.0044, 0.0056) Extreme Shares: 0 %	<b>0.51</b> +/- 0.0087 0.0098 (0.0087, 0.011) Extreme Shares: 0 %	<b>0.49</b> +/- 0.011 0.017 (0.015, 0.019) Extreme Shares: 0 %
DynamicEpsilonGreedy	<b>0.44</b> +/- 0.0086 0.0096 (0.0085, 0.011) Extreme Shares: 0 %	<b>0.48</b> +/- 0.01 0.013 (0.012, 0.015) Extreme Shares: 0 %	<b>0.48</b> +/- 0.012 0.018 (0.016, 0.02) Extreme Shares: 0 %
DynamicGreedy	<b>0.47</b> +/- 0.011 0.015 (0.013, 0.017) Extreme Shares: 0.2 %	<b>0.49</b> +/- 0.012 0.018 (0.016, 0.021) Extreme Shares: 0.2 %	<b>0.48</b> +/- 0.011 0.016 (0.015, 0.019) Extreme Shares: 0.4 %

## Results for HardMax t = 1000 Uniform

	ThompsonSampling	DynamicEpsilonGreedy	DynamicGreedy
ThompsonSampling	<b>0.17</b> +/- 0.027 0.097 (0.086, 0.11) Extreme Shares: 81 %	<b>0.22</b> +/- 0.032 0.13 (0.12, 0.15) Extreme Shares: 83 %	<b>0.24</b> +/- 0.033 0.14 (0.13, 0.16) Extreme Shares: 83 %
DynamicEpsilonGreedy	<b>0.24</b> +/- 0.033 0.14 (0.12, 0.16) Extreme Shares: 82 %	<b>0.24</b> +/- 0.032 0.14 (0.12, 0.15) Extreme Shares: 78 %	<b>0.24</b> +/- 0.033 0.14 (0.13, 0.16) Extreme Shares: 82 %
DynamicGreedy	<b>0.2</b> +/- 0.03 0.12 (0.11, 0.14) Extreme Shares: 82 %	<b>0.21</b> +/- 0.031 0.12 (0.11, 0.14) Extreme Shares: 78 %	<b>0.26</b> +/- 0.034 0.15 (0.13, 0.17) Extreme Shares: 81 %

## Results for HardMaxWithRandom t = 1000 Uniform

	ThompsonSampling	DynamicEpsilonGreedy	DynamicGreedy
ThompsonSampling	<b>0.28</b> +/- 0.029 0.11 (0.097, 0.12) Extreme Shares: 62 %	<b>0.29</b> +/- 0.029 0.11 (0.098, 0.13) Extreme Shares: 60 %	<b>0.32</b> +/- 0.031 0.12 (0.11, 0.14) Extreme Shares: 58 %
DynamicEpsilonGreedy	<b>0.33</b> +/- 0.031 0.12 (0.11, 0.14) Extreme Shares: 58 %	<b>0.34</b> +/- 0.031 0.12 (0.11, 0.14) Extreme Shares: 58 %	<b>0.36</b> +/- 0.031 0.13 (0.11, 0.14) Extreme Shares: 54 %
DynamicGreedy	<b>0.33</b> +/- 0.03 0.12 (0.1, 0.13) Extreme Shares: 56 %	<b>0.33</b> +/- 0.029 0.11 (0.099, 0.13) Extreme Shares: 53 %	<b>0.36</b> +/- 0.031 0.13 (0.11, 0.15) Extreme Shares: 56 %

## Results for SoftMax t = 1000 Uniform

	ThompsonSampling	DynamicEpsilonGreedy	DynamicGreedy
ThompsonSampling	<b>0.47</b> +/- 0.0081 0.0085 (0.0075, 0.0096) Extreme Shares: 0 %	<b>0.49</b> +/- 0.0097 0.012 (0.011, 0.014) Extreme Shares: 0 %	<b>0.5</b> +/- 0.011 0.016 (0.014, 0.018) Extreme Shares: 0 %
DynamicEpsilonGreedy	<b>0.47</b> +/- 0.01 0.013 (0.012, 0.015) Extreme Shares: 0 %	<b>0.47</b> +/- 0.011 0.015 (0.014, 0.017) Extreme Shares: 0 %	<b>0.5</b> +/- 0.012 0.02 (0.018, 0.023) Extreme Shares: 0 %
DynamicGreedy	<b>0.47</b> +/- 0.011 0.016 (0.014, 0.018) Extreme Shares: 0 %	<b>0.48</b> +/- 0.012 0.02 (0.018, 0.023) Extreme Shares: 0 %	<b>0.5</b> +/- 0.013 0.023 (0.02, 0.026) Extreme Shares: 0 %