

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

	ThompsonSampling	DynamicEpsilonGreedy	DynamicGreedy
ThompsonSampling	<b>0.29</b> +/- 0.038 0.19 (0.17, 0.22) Extreme Shares: 92 %	<b>0.36</b> +/- 0.041 0.22 (0.2, 0.25) Extreme Shares: 95 %	<b>0.41</b> +/- 0.042 0.23 (0.2, 0.26) Extreme Shares: 94 %
DynamicEpsilonGreedy	<b>0.31</b> +/- 0.039 0.2 (0.18, 0.23) Extreme Shares: 93 %	<b>0.33</b> +/- 0.04 0.2 (0.18, 0.23) Extreme Shares: 91 %	<b>0.45</b> +/- 0.042 0.23 (0.2, 0.26) Extreme Shares: 92 %
DynamicGreedy	<b>0.25</b> +/- 0.036 0.17 (0.15, 0.19) Extreme Shares: 92 %	<b>0.35</b> +/- 0.04 0.21 (0.18, 0.23) Extreme Shares: 91 %	<b>0.39</b> +/- 0.041 0.22 (0.19, 0.24) Extreme Shares: 89 %

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

	ThompsonSampling	DynamicEpsilonGreedy	DynamicGreedy
ThompsonSampling	<b>0.28</b> +/- 0.032 0.13 (0.12, 0.15) Extreme Shares: 73 %	<b>0.34</b> +/- 0.034 0.15 (0.13, 0.17) Extreme Shares: 71 %	<b>0.46</b> +/- 0.036 0.17 (0.15, 0.19) Extreme Shares: 70 %
DynamicEpsilonGreedy	<b>0.28</b> +/- 0.03 0.12 (0.1, 0.13) Extreme Shares: 66 %	<b>0.32</b> +/- 0.033 0.14 (0.12, 0.16) Extreme Shares: 72 %	<b>0.43</b> +/- 0.035 0.16 (0.14, 0.18) Extreme Shares: 66 %
DynamicGreedy	<b>0.29</b> +/- 0.03 0.12 (0.1, 0.13) Extreme Shares: 63 %	<b>0.36</b> +/- 0.033 0.14 (0.13, 0.16) Extreme Shares: 67 %	<b>0.44</b> +/- 0.035 0.16 (0.14, 0.18) Extreme Shares: 65 %

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

	ThompsonSampling	DynamicEpsilonGreedy	DynamicGreedy
ThompsonSampling	<b>0.44</b> +/- 0.0085 0.0093 (0.0082, 0.011) Extreme Shares: 0 %	<b>0.47</b> +/- 0.012 0.019 (0.017, 0.021) Extreme Shares: 0 %	<b>0.53</b> +/- 0.016 0.032 (0.029, 0.037) Extreme Shares: 0 %
DynamicEpsilonGreedy	<b>0.42</b> +/- 0.011 0.017 (0.015, 0.019) Extreme Shares: 0 %	<b>0.44</b> +/- 0.014 0.027 (0.024, 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> +/- 0.013 0.022 (0.02, 0.025) Extreme Shares: 0 %	<b>0.44</b> +/- 0.015 0.03 (0.026, 0.034) Extreme Shares: 0 %	<b>0.48</b> +/- 0.017 0.04 (0.035, 0.045) Extreme Shares: 0 %

## Results for HardMax t = 1000 Heavy Tail

	ThompsonSampling	DynamicEpsilonGreedy	DynamicGreedy
ThompsonSampling	<b>0.14</b> +/- 0.029 0.11 (0.097, 0.12) Extreme Shares: 95 %	<b>0.21</b> +/- 0.035 0.16 (0.14, 0.18) Extreme Shares: 97 %	<b>0.22</b> +/- 0.036 0.16 (0.15, 0.19) Extreme Shares: 96 %
DynamicEpsilonGreedy	<b>0.24</b> +/- 0.035 0.16 (0.14, 0.18) Extreme Shares: 89 %	<b>0.32</b> +/- 0.039 0.2 (0.18, 0.22) Extreme Shares: 92 %	<b>0.32</b> +/- 0.039 0.19 (0.17, 0.22) Extreme Shares: 89 %
DynamicGreedy	<b>0.26</b> +/- 0.036 0.17 (0.15, 0.19) Extreme Shares: 89 %	<b>0.34</b> +/- 0.04 0.2 (0.18, 0.23) Extreme Shares: 90 %	<b>0.32</b> +/- 0.039 0.19 (0.17, 0.22) Extreme Shares: 89 %

## Results for HardMaxWithRandom t = 1000 Heavy Tail

	ThompsonSampling	DynamicEpsilonGreedy	DynamicGreedy
ThompsonSampling	<b>0.18</b> +/- 0.025 0.081 (0.072, 0.092) Extreme Shares: 75 %	<b>0.27</b> +/- 0.031 0.12 (0.11, 0.14) Extreme Shares: 72 %	<b>0.28</b> +/- 0.032 0.13 (0.12, 0.15) Extreme Shares: 77 %
DynamicEpsilonGreedy	<b>0.23</b> +/- 0.027 0.095 (0.085, 0.11) Extreme Shares: 69 %	<b>0.34</b> +/- 0.031 0.13 (0.11, 0.14) Extreme Shares: 60 %	<b>0.33</b> +/- 0.033 0.14 (0.12, 0.16) Extreme Shares: 69 %
DynamicGreedy	<b>0.3</b> +/- 0.031 0.12 (0.11, 0.14) Extreme Shares: 65 %	<b>0.41</b> +/- 0.034 0.15 (0.13, 0.17) Extreme Shares: 61 %	<b>0.36</b> +/- 0.031 0.13 (0.11, 0.15) Extreme Shares: 58 %

## Results for SoftMax t = 1000 Heavy Tail

	ThompsonSampling	DynamicEpsilonGreedy	DynamicGreedy
ThompsonSampling	<b>0.45</b> +/- 0.0058 0.0044 (0.0039, 0.005) Extreme Shares: 0 %	<b>0.48</b> +/- 0.0081 0.0085 (0.0075, 0.0096) Extreme Shares: 0 %	<b>0.49</b> +/- 0.012 0.018 (0.016, 0.02) Extreme Shares: 0.2 %
DynamicEpsilonGreedy	<b>0.43</b> +/- 0.0083 0.0088 (0.0078, 0.01) Extreme Shares: 0 %	<b>0.47</b> +/- 0.0093 0.011 (0.0099, 0.013) Extreme Shares: 0.4 %	<b>0.47</b> +/- 0.012 0.018 (0.016, 0.021) Extreme Shares: 0.2 %
DynamicGreedy	<b>0.45</b> +/- 0.009 0.011 (0.0093, 0.012) Extreme Shares: 0 %	<b>0.48</b> +/- 0.011 0.015 (0.014, 0.018) Extreme Shares: 0.2 %	<b>0.47</b> +/- 0.012 0.019 (0.016, 0.021) Extreme Shares: 0.6 %

## Results for HardMax t = 1000 Uniform

	ThompsonSampling	DynamicEpsilonGreedy	DynamicGreedy
ThompsonSampling	<b>0.35</b> +/- 0.04 0.2 (0.18, 0.23) Extreme Shares: 88 %	<b>0.36</b> +/- 0.04 0.21 (0.19, 0.24) Extreme Shares: 91 %	<b>0.38</b> +/- 0.041 0.22 (0.19, 0.25) Extreme Shares: 92 %
DynamicEpsilonGreedy	<b>0.36</b> +/- 0.04 0.21 (0.19, 0.24) Extreme Shares: 90 %	<b>0.4</b> +/- 0.041 0.22 (0.2, 0.25) Extreme Shares: 91 %	<b>0.41</b> +/- 0.041 0.22 (0.2, 0.25) Extreme Shares: 90 %
DynamicGreedy	<b>0.34</b> +/- 0.039 0.2 (0.18, 0.23) Extreme Shares: 88 %	<b>0.37</b> +/- 0.041 0.21 (0.19, 0.24) Extreme Shares: 90 %	<b>0.43</b> +/- 0.041 0.22 (0.2, 0.25) Extreme Shares: 89 %

## Results for HardMaxWithRandom t = 1000 Uniform

	ThompsonSampling	DynamicEpsilonGreedy	DynamicGreedy
ThompsonSampling	<b>0.36</b> +/- 0.032 0.13 (0.12, 0.15) Extreme Shares: 59 %	<b>0.36</b> +/- 0.033 0.14 (0.13, 0.16) Extreme Shares: 66 %	<b>0.4</b> +/- 0.034 0.15 (0.13, 0.17) Extreme Shares: 63 %
DynamicEpsilonGreedy	<b>0.37</b> +/- 0.032 0.13 (0.12, 0.15) Extreme Shares: 56 %	<b>0.39</b> +/- 0.033 0.14 (0.12, 0.16) Extreme Shares: 59 %	<b>0.44</b> +/- 0.033 0.14 (0.12, 0.16) Extreme Shares: 53 %
DynamicGreedy	<b>0.42</b> +/- 0.033 0.14 (0.12, 0.16) Extreme Shares: 54 %	<b>0.38</b> +/- 0.032 0.13 (0.12, 0.15) Extreme Shares: 56 %	<b>0.43</b> +/- 0.033 0.14 (0.13, 0.16) Extreme Shares: 56 %

## Results for SoftMax t = 1000 Uniform

	ThompsonSampling	DynamicEpsilonGreedy	DynamicGreedy
ThompsonSampling	<b>0.45</b> +/- 0.0076 0.0074 (0.0066, 0.0085) Extreme Shares: 0 %	<b>0.47</b> +/- 0.0095 0.012 (0.01, 0.013) Extreme Shares: 0 %	<b>0.49</b> +/- 0.012 0.019 (0.017, 0.021) Extreme Shares: 0 %
DynamicEpsilonGreedy	<b>0.45</b> +/- 0.01 0.014 (0.012, 0.016) Extreme Shares: 0 %	<b>0.47</b> +/- 0.011 0.017 (0.015, 0.019) Extreme Shares: 0 %	<b>0.51</b> +/- 0.013 0.021 (0.019, 0.024) Extreme Shares: 0 %
DynamicGreedy	<b>0.45</b> +/- 0.011 0.016 (0.014, 0.018) Extreme Shares: 0 %	<b>0.47</b> +/- 0.012 0.019 (0.017, 0.021) Extreme Shares: 0 %	<b>0.48</b> +/- 0.014 0.027 (0.024, 0.031) Extreme Shares: 0.2 %