**Forest Cover Type Dataset, classifier = multiclass(C=10.0, kernel=kernels.rbf(0.005), tol=2.0)**

**Only Incremental - Baseline**

**Classification report:**

precision recall f1-score support

0 0.80 0.77 0.78 580

1 0.91 0.85 0.88 1180

2 0.84 0.82 0.83 436

3 0.90 0.95 0.92 443

4 0.86 0.96 0.91 481

5 0.84 0.86 0.85 446

6 0.91 0.96 0.93 434

micro avg 0.87 0.87 0.87 4000

macro avg 0.86 0.88 0.87 4000

weighted avg 0.87 0.87 0.87 4000

**Confusion matrix:**

[[444 82 0 1 16 0 37]

[ 92 998 16 0 54 15 5]

[ 0 3 357 27 3 46 0]

[ 0 0 13 420 0 10 0]

[ 2 12 2 0 463 2 0]

[ 2 3 36 20 3 382 0]

[ 15 3 0 0 0 0 416]]

**Accuracy**: 87.0

**Non-Accelerated Run time:** 2:12:54.558741

**Accelerated Run time:** 0:26:38.169189

**Misclassified Samples only**

**Classification report:**

precision recall f1-score support

1 0.75 0.75 0.75 580

2 0.87 0.84 0.85 1180

3 0.76 0.78 0.77 436

4 0.90 0.91 0.91 443

5 0.86 0.93 0.89 481

6 0.80 0.78 0.79 446

7 0.92 0.93 0.92 434

micro avg 0.84 0.84 0.84 4000

macro avg 0.84 0.84 0.84 4000

weighted avg 0.84 0.84 0.84 4000

**Confusion matrix:**

[[433 105 0 2 10 0 30]

[111 986 14 1 51 13 4]

[ 0 7 340 28 5 56 0]

[ 0 0 23 405 0 15 0]

[ 4 20 6 0 448 3 0]

[ 4 6 66 14 8 347 1]

[ 28 4 0 0 0 0 402]]

Accuracy: 84.025

**Non-Accelerated Run time:** 2:51:53.1125647

**Accelerated Run time:** 0:31:42.762514

**Misclassified Samples + Marginal**

**Classification report:**

precision recall f1-score support

1 0.79 0.77 0.78 580

2 0.91 0.84 0.87 1180

3 0.84 0.82 0.83 436

4 0.90 0.94 0.92 443

5 0.86 0.96 0.91 481

6 0.84 0.87 0.85 446

7 0.91 0.96 0.93 434

micro avg 0.87 0.87 0.87 4000

macro avg 0.86 0.88 0.87 4000

weighted avg 0.87 0.87 0.87 4000

**Confusion matrix:**

[[444 81 0 2 16 0 37]

[ 96 993 17 0 54 15 5]

[ 0 3 356 28 2 47 0]

[ 1 0 15 416 1 10 0]

[ 2 11 4 0 462 2 0]

[ 2 3 32 18 3 388 0]

[ 15 3 0 0 0 0 416]]

**Accuracy**: 86.875

**Non-Accelerated Run time:** 12:26:54.441567

**Accelerated Run time:** 2:21:20.933626