|=======================================================================================================================|

| Epoch | Iteration | Time Elapsed | Mini-batch | Validation | Mini-batch | Validation | Base Learning|

| | | (seconds) | Loss | Loss | Accuracy | Accuracy | Rate |

|=======================================================================================================================|

| 1 | 1 | 5.94 | 0.6908 | 0.6671 | 53.00% | 70.83% | 0.0100 |

| 1 | 2 | 24.29 | 0.6679 | | 67.00% | | 0.0100 |

| 1 | 3 | 27.20 | 0.5931 | | 83.00% | | 0.0100 |

| 1 | 4 | 30.18 | 0.5023 | | 84.00% | | 0.0100 |

| 1 | 5 | 33.05 | 0.4206 | | 85.00% | | 0.0100 |

| 1 | 6 | 36.10 | 0.4045 | | 82.00% | | 0.0100 |

| 1 | 7 | 38.80 | 0.3464 | | 87.00% | | 0.0100 |

| 1 | 8 | 42.04 | 0.1986 | 0.2969 | 95.00% | 87.17% | 0.0100 |

| 1 | 9 | 56.11 | 0.1644 | | 92.00% | | 0.0100 |

| 1 | 10 | 59.30 | 0.4022 | | 94.00% | | 0.0100 |

| 1 | 11 | 62.69 | 0.3134 | | 93.00% | | 0.0100 |

| 1 | 12 | 66.09 | 0.3651 | | 89.00% | | 0.0100 |

| 1 | 13 | 69.22 | 0.2134 | | 94.00% | | 0.0100 |

| 1 | 14 | 72.94 | 0.1291 | | 94.00% | | 0.0100 |

| 1 | 15 | 76.23 | 0.2567 | | 90.00% | | 0.0100 |

| 1 | 16 | 79.64 | 0.1468 | 0.1270 | 93.00% | 94.50% | 0.0100 |

| 2 | 17 | 93.51 | 0.2506 | | 89.00% | | 0.0100 |

| 2 | 18 | 96.79 | 0.6193 | | 77.00% | | 0.0100 |

| 2 | 19 | 99.82 | 0.2031 | | 93.00% | | 0.0100 |

| 2 | 20 | 102.66 | 0.4716 | | 88.00% | | 0.0100 |

| 2 | 21 | 105.53 | 0.1566 | | 93.00% | | 0.0100 |

| 2 | 22 | 108.67 | 0.4024 | | 80.00% | | 0.0100 |

| 2 | 23 | 112.05 | 0.1557 | | 95.00% | | 0.0100 |

| 2 | 24 | 115.08 | 0.1556 | 0.2999 | 95.00% | 87.00% | 0.0100 |

| 2 | 25 | 129.30 | 0.1831 | | 93.00% | | 0.0100 |

| 2 | 26 | 132.48 | 0.1004 | | 97.00% | | 0.0100 |

| 2 | 27 | 135.33 | 0.0806 | | 98.00% | | 0.0100 |

| 2 | 28 | 138.05 | 0.1292 | | 93.00% | | 0.0100 |

| 2 | 29 | 141.05 | 0.1449 | | 93.00% | | 0.0100 |

| 2 | 30 | 144.60 | 0.1538 | | 96.00% | | 0.0100 |

| 2 | 31 | 147.54 | 0.0679 | | 96.00% | | 0.0100 |

| 2 | 32 | 150.81 | 0.0222 | 0.3365 | 99.00% | 88.83% | 0.0100 |

| 3 | 33 | 163.55 | 0.2791 | | 93.00% | | 0.0100 |

| 3 | 34 | 166.71 | 0.1547 | | 94.00% | | 0.0100 |

| 3 | 35 | 169.59 | 0.1122 | | 94.00% | | 0.0100 |

| 3 | 36 | 172.27 | 0.1798 | | 96.00% | | 0.0100 |

| 3 | 37 | 174.93 | 0.0579 | | 99.00% | | 0.0100 |

| 3 | 38 | 177.41 | 0.1013 | | 96.00% | | 0.0100 |

| 3 | 39 | 180.21 | 0.1277 | | 95.00% | | 0.0100 |

| 3 | 40 | 182.70 | 0.0891 | 0.2423 | 97.00% | 91.00% | 0.0100 |

| 3 | 41 | 193.88 | 0.0819 | | 96.00% | | 0.0100 |

| 3 | 42 | 196.72 | 0.0762 | | 97.00% | | 0.0100 |

| 3 | 43 | 199.34 | 0.0581 | | 98.00% | | 0.0100 |

| 3 | 44 | 201.96 | 0.0866 | | 96.00% | | 0.0100 |

| 3 | 45 | 204.51 | 0.0236 | | 100.00% | | 0.0100 |

| 3 | 46 | 207.65 | 0.1974 | | 89.00% | | 0.0100 |

| 3 | 47 | 210.24 | 0.0198 | | 99.00% | | 0.0100 |

| 3 | 48 | 213.14 | 0.0557 | 0.7543 | 97.00% | 79.00% | 0.0100 |

| 4 | 49 | 223.70 | 0.2893 | | 91.00% | | 0.0100 |

| 4 | 50 | 226.53 | 0.0602 | | 97.00% | | 0.0100 |

| 4 | 51 | 228.99 | 0.5454 | | 79.00% | | 0.0100 |

| 4 | 52 | 231.55 | 0.1468 | | 93.00% | | 0.0100 |

| 4 | 53 | 233.91 | 0.1548 | | 93.00% | | 0.0100 |

| 4 | 54 | 236.58 | 0.3705 | | 85.00% | | 0.0100 |

| 4 | 55 | 239.40 | 0.1893 | | 96.00% | | 0.0100 |

| 4 | 56 | 241.76 | 0.1377 | 0.2119 | 100.00% | 93.17% | 0.0100 |

|=======================================================================================================================|

accuracy =

0.9500

accuracy2 =

0.9460