=== Run information ===

Scheme: weka.classifiers.functions.LibSVM -S 0 -K 2 -D 3 -G 0.0 -R 0.0 -N 0.5 -M 40.0 -C 1.0 -E 0.001 -P 0.1 -model "C:\\Program Files\\Weka-3-8-5" -seed 1

Relation: KDDTrain20P\_05A.arff-weka.filters.unsupervised.attribute.Remove-R42-weka.filters.unsupervised.attribute.RemoveUseless-M99.0-weka.filters.unsupervised.attribute.SortLabels-R2-SNON-CASE-weka.filters.unsupervised.attribute.OrdinalToNumeric-R2-4-weka.filters.unsupervised.attribute.MathExpression-E(A-MEAN)/SD-weka.filters.unsupervised.attribute.Remove-V-R5,3,28,4,last

Instances: 25192

Attributes: 5

src\_bytes

service

diff\_srv\_rate

flag

class

Test mode: 10-fold cross-validation

=== Classifier model (full training set) ===

LibSVM wrapper, original code by Yasser EL-Manzalawy (= WLSVM)

Time taken to build model: 8.2 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances 23133 91.8268 %

Incorrectly Classified Instances 2059 8.1732 %

Kappa statistic 0.8511

Mean absolute error 0.0327

Root mean squared error 0.1808

Relative absolute error 14.2798 %

Root relative squared error 53.4435 %

Total Number of Instances 25192

=== Detailed Accuracy By Class ===

TP Rate FP Rate Precision Recall F-Measure MCC ROC Area PRC Area Class

0.979 0.142 0.888 0.979 0.931 0.849 0.919 0.880 normal

0.956 0.017 0.969 0.956 0.963 0.942 0.969 0.943 dos

0.062 0.000 1.000 0.062 0.117 0.248 0.531 0.070 r2l

0.491 0.005 0.906 0.491 0.637 0.645 0.743 0.491 probe

0.000 0.000 ? 0.000 ? ? 0.500 0.000 u2r

Weighted Avg. 0.918 0.082 ? 0.918 ? ? 0.918 0.861

=== Confusion Matrix ===

a b c d e <-- classified as

13165 206 0 78 0 | a = normal

365 8831 0 38 0 | b = dos

164 31 13 1 0 | c = r2l

1125 40 0 1124 0 | d = probe

10 1 0 0 0 | e = u2r