=== 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,last

Instances: 25192

Attributes: 4

src\_bytes

service

diff\_srv\_rate

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: 9.59 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances 22175 88.024 %

Incorrectly Classified Instances 3017 11.976 %

Kappa statistic 0.7774

Mean absolute error 0.0479

Root mean squared error 0.2189

Relative absolute error 20.9238 %

Root relative squared error 64.6926 %

Total Number of Instances 25192

=== Detailed Accuracy By Class ===

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

0.967 0.193 0.851 0.967 0.905 0.789 0.887 0.841 normal

0.942 0.043 0.927 0.942 0.935 0.896 0.950 0.895 dos

0.062 0.000 1.000 0.062 0.117 0.248 0.531 0.070 r2l

0.201 0.003 0.880 0.201 0.328 0.400 0.599 0.250 probe

0.000 0.000 ? 0.000 ? ? 0.500 0.000 u2r

Weighted Avg. 0.880 0.119 ? 0.880 ? ? 0.881 0.800

=== Confusion Matrix ===

a b c d e <-- classified as

12999 394 0 56 0 | a = normal

527 8702 0 5 0 | b = dos

129 65 13 2 0 | c = r2l

1604 224 0 461 0 | d = probe

10 1 0 0 0 | e = u2r