=== 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 "D:\\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-Elog(1+A)-Rlast-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: 3.09 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances 24371 96.741 %

Incorrectly Classified Instances 821 3.259 %

Kappa statistic 0.9423

Mean absolute error 0.013

Root mean squared error 0.1142

Relative absolute error 5.6939 %

Root relative squared error 33.7472 %

Total Number of Instances 25192

=== Detailed Accuracy By Class ===

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

0.986 0.031 0.973 0.986 0.980 0.956 0.978 0.967 normal

0.988 0.027 0.956 0.988 0.972 0.955 0.981 0.949 dos

0.062 0.000 1.000 0.062 0.117 0.248 0.531 0.070 r2l

0.862 0.001 0.984 0.862 0.918 0.913 0.930 0.860 probe

0.000 0.000 ? 0.000 ? ? 0.500 0.000 u2r

Weighted Avg. 0.967 0.026 ? 0.967 ? ? 0.970 0.943

=== Confusion Matrix ===

a b c d e <-- classified as

13264 168 0 17 0 | a = normal

97 9122 0 15 0 | b = dos

147 49 13 0 0 | c = r2l

113 204 0 1972 0 | d = probe

8 2 0 1 0 | e = u2r