=== 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-R5,3,28,4,6,27,33,last

Instances: 25192

Attributes: 8

src\_bytes

service

diff\_srv\_rate

flag

dst\_bytes

same\_srv\_rate

dst\_host\_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: 2.21 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances 24806 98.4678 %

Incorrectly Classified Instances 386 1.5322 %

Kappa statistic 0.973

Mean absolute error 0.0061

Root mean squared error 0.0783

Relative absolute error 2.677 %

Root relative squared error 23.1398 %

Total Number of Instances 25192

=== Detailed Accuracy By Class ===

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

0.995 0.023 0.980 0.995 0.987 0.973 0.986 0.978 normal

0.996 0.005 0.992 0.996 0.994 0.990 0.995 0.989 dos

0.134 0.000 0.824 0.134 0.230 0.330 0.567 0.118 r2l

0.964 0.002 0.984 0.964 0.974 0.971 0.981 0.952 probe

0.000 0.000 ? 0.000 ? ? 0.500 0.000 u2r

Weighted Avg. 0.985 0.014 ? 0.985 ? ? 0.985 0.972

=== Confusion Matrix ===

a b c d e <-- classified as

13379 39 6 25 0 | a = normal

32 9193 0 9 0 | b = dos

178 2 28 1 0 | c = r2l

51 32 0 2206 0 | d = probe

10 0 0 1 0 | e = u2r