=== 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,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: 3.16 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances 24221 96.1456 %

Incorrectly Classified Instances 971 3.8544 %

Kappa statistic 0.9314

Mean absolute error 0.0154

Root mean squared error 0.1242

Relative absolute error 6.7342 %

Root relative squared error 36.7009 %

Total Number of Instances 25192

=== Detailed Accuracy By Class ===

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

0.989 0.028 0.976 0.989 0.983 0.963 0.981 0.972 normal

0.993 0.040 0.935 0.993 0.963 0.942 0.976 0.931 dos

0.062 0.000 1.000 0.062 0.117 0.248 0.531 0.070 r2l

0.758 0.000 0.994 0.758 0.860 0.857 0.879 0.776 probe

0.000 0.000 ? 0.000 ? ? 0.500 0.000 u2r

Weighted Avg. 0.961 0.029 ? 0.961 ? ? 0.966 0.931

=== Confusion Matrix ===

a b c d e <-- classified as

13305 142 0 2 0 | a = normal

59 9168 0 7 0 | b = dos

164 32 13 0 0 | c = r2l

93 461 0 1735 0 | d = probe

7 3 0 1 0 | e = u2r