=== 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-R5,3,28,4,6,27,33,21,31,32,last

Instances: 25192

Attributes: 11

src\_bytes

service

diff\_srv\_rate

flag

dst\_bytes

same\_srv\_rate

dst\_host\_diff\_srv\_rate

count

dst\_host\_srv\_count

dst\_host\_same\_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: 2.25 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances 24892 98.8091 %

Incorrectly Classified Instances 300 1.1909 %

Kappa statistic 0.9791

Mean absolute error 0.0048

Root mean squared error 0.069

Relative absolute error 2.0806 %

Root relative squared error 20.3999 %

Total Number of Instances 25192

=== Detailed Accuracy By Class ===

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

0.992 0.015 0.987 0.992 0.990 0.978 0.989 0.984 normal

0.996 0.002 0.997 0.996 0.997 0.995 0.997 0.995 dos

0.651 0.000 0.925 0.651 0.764 0.774 0.825 0.605 r2l

0.964 0.004 0.962 0.964 0.963 0.959 0.980 0.931 probe

0.000 0.000 ? 0.000 ? ? 0.500 0.000 u2r

Weighted Avg. 0.988 0.009 ? 0.988 ? ? 0.990 0.979

=== Confusion Matrix ===

a b c d e <-- classified as

13348 11 11 79 0 | a = normal

26 9201 0 7 0 | b = dos

71 2 136 0 0 | c = r2l

67 15 0 2207 0 | d = probe

10 0 0 1 0 | e = u2r