=== 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-R5,3,28,4,6,27,33,21,31,32,36,23,37,24,12,35,34,last

Instances: 25192

Attributes: 18

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

dst\_host\_serror\_rate

serror\_rate

dst\_host\_srv\_serror\_rate

srv\_serror\_rate

logged\_in

dst\_host\_srv\_diff\_host\_rate

dst\_host\_same\_src\_port\_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: 2.53 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances 24898 98.833 %

Incorrectly Classified Instances 294 1.167 %

Kappa statistic 0.9795

Mean absolute error 0.0047

Root mean squared error 0.0683

Relative absolute error 2.039 %

Root relative squared error 20.1948 %

Total Number of Instances 25192

=== Detailed Accuracy By Class ===

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

0.994 0.017 0.985 0.994 0.989 0.977 0.988 0.982 normal

0.998 0.001 0.999 0.998 0.998 0.998 0.999 0.998 dos

0.569 0.000 0.908 0.569 0.700 0.717 0.784 0.521 r2l

0.958 0.003 0.971 0.958 0.965 0.961 0.978 0.934 probe

0.000 0.000 ? 0.000 ? ? 0.500 0.000 u2r

Weighted Avg. 0.988 0.010 ? 0.988 ? ? 0.989 0.979

=== Confusion Matrix ===

a b c d e <-- classified as

13368 4 12 65 0 | a = normal

17 9217 0 0 0 | b = dos

88 2 119 0 0 | c = r2l

89 6 0 2194 0 | d = probe

10 0 0 1 0 | e = u2r