=== Run information ===

Scheme: weka.classifiers.meta.Stacking -X 10 -M "weka.classifiers.trees.J48 -C 0.25 -M 2" -S 1 -num-slots 1 -B "weka.classifiers.lazy.IBk -K 1 -W 0 -A \"weka.core.neighboursearch.KDTree -A \\\"weka.core.EuclideanDistance -R first-last\\\" -S weka.core.neighboursearch.kdtrees.SlidingMidPointOfWidestSide -W 0.01 -L 40 -N\"" -B "weka.classifiers.rules.Prism " -B "weka.classifiers.bayes.BayesNet -D -Q weka.classifiers.bayes.net.search.local.K2 -- -P 1 -S BAYES -E weka.classifiers.bayes.net.estimate.SimpleEstimator -- -A 0.5"

Relation: binNomified

Instances: 14996

Attributes: 38

is\_attack

P101

P203

P205

P301

P401

P601

MV301

MV302

MV304

UV401

MV101

MV201

MV303

FIT101

LIT101

AIT202

AIT203

FIT201

DPIT301

FIT301

LIT301

AIT402

FIT401

LIT401

AIT501

AIT502

AIT503

AIT504

FIT501

FIT502

FIT503

FIT504

PIT501

PIT502

PIT503

FIT601

AIT201

Test mode: 10-fold cross-validation

=== Classifier model (full training set) ===

Stacking

Base classifiers

IB1 instance-based classifier

using 1 nearest neighbour(s) for classification

Prism rules

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If AIT402 = GT\_6.677774905 then zero

If FIT301 = GT\_1.7269319900000002 then zero

If LIT101 = LT\_545.1423 then zero

If P601 = two then zero

If MV304 = two then zero

If MV303 = two then zero

If MV302 = zero then zero

If MV303 = zero then zero

If MV304 = zero then zero

If PIT503 = GT\_114.481865

and FIT601 = LT\_0.000288341 then zero

If PIT503 = GT\_114.481865

and P301 = one then zero

If DPIT301 = GT\_12.544016849999998

and AIT503 = GT\_1016.24585 then zero

If AIT201 = GT\_128.5087125

and MV201 = zero then zero

If AIT201 = GT\_128.5087125

and P301 = one then zero

If AIT201 = GT\_128.5087125

and AIT203 = LT\_235.8625945

and AIT503 = LT\_1016.24585 then zero

If PIT501 = GT\_159.94296250000002

and LIT301 = LT\_1010.5982650000001

and FIT401 = GT\_0.79857865 then zero

If AIT504 = LT\_24.82055855

and DPIT301 = GT\_12.544016849999998 then zero

If AIT504 = LT\_24.82055855

and P301 = one

and FIT401 = LT\_0.79857865 then zero

If AIT504 = LT\_24.82055855

and P301 = one

and AIT202 = GT\_8.9337995

and MV302 = two then zero

If FIT201 = GT\_2.316278455

and AIT203 = LT\_235.8625945 then zero

If FIT201 = GT\_2.316278455

and AIT502 = GT\_68.25173225 then zero

If FIT201 = GT\_2.316278455

and AIT503 = LT\_1016.24585

and AIT501 = LT\_7.74131627 then zero

If FIT201 = GT\_2.316278455

and AIT503 = LT\_1016.24585

and FIT502 = LT\_0.3526962995

and FIT503 = LT\_0.6097366184999999 then zero

If FIT201 = GT\_2.316278455

and AIT503 = LT\_1016.24585

and FIT601 = GT\_0.000288341

and P301 = one then zero

If AIT201 = GT\_128.5087125

and AIT202 = LT\_8.9337995

and FIT502 = LT\_0.3526962995 then zero

If AIT201 = GT\_128.5087125

and AIT202 = LT\_8.9337995

and FIT504 = GT\_0.21173492900000002 then zero

If AIT201 = GT\_128.5087125

and AIT202 = LT\_8.9337995

and FIT401 = LT\_0.79857865 then zero

If AIT201 = GT\_128.5087125

and AIT202 = LT\_8.9337995

and LIT401 = GT\_787.028992

and P101 = one

and P203 = one

and P205 = one

and P301 = two

and P401 = two

and P601 = one

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and MV101 = one

and MV201 = one

and MV303 = one

and FIT101 = LT\_4.3850686549999995

and LIT101 = GT\_545.1423

and AIT203 = LT\_235.8625945

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and FIT301 = LT\_1.7269319900000002

and LIT301 = LT\_1010.5982650000001

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and AIT503 = GT\_1016.24585

and AIT504 = GT\_24.82055855

and FIT501 = GT\_0.801781585

and FIT502 = GT\_0.3526962995

and FIT503 = LT\_0.6097366184999999

and FIT504 = LT\_0.21173492900000002

and PIT501 = LT\_159.94296250000002

and PIT502 = LT\_2.8593855

and PIT503 = LT\_114.481865

and FIT601 = GT\_0.000288341 then zero

If AIT201 = GT\_128.5087125

and FIT503 = LT\_0.6097366184999999

and FIT601 = LT\_0.000288341

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If FIT201 = GT\_2.316278455

and FIT503 = LT\_0.6097366184999999

and PIT502 = LT\_2.8593855

and P301 = one then zero

If AIT201 = GT\_128.5087125

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and FIT601 = LT\_0.000288341

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and P205 = one

and P301 = two

and P401 = two

and P601 = one

and MV301 = one

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and P301 = two

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and PIT503 = LT\_114.481865

and FIT504 = LT\_0.21173492900000002

and FIT501 = GT\_0.801781585

and P101 = two

and P203 = two

and P205 = two

and P301 = two

and P401 = two

and P601 = one

and MV301 = one

and MV302 = two

and MV304 = one

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If AIT502 = GT\_68.25173225

and LIT301 = LT\_1010.5982650000001 then zero

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and P301 = one

and FIT201 = GT\_2.316278455 then zero

If DPIT301 = GT\_12.544016849999998

and FIT601 = GT\_0.000288341

and FIT501 = GT\_0.801781585 then zero

If FIT502 = LT\_0.3526962995

and P301 = two

and PIT502 = GT\_2.8593855 then zero

If FIT502 = LT\_0.3526962995

and P301 = two

and AIT201 = LT\_128.5087125

and AIT202 = GT\_8.9337995 then zero

If FIT501 = LT\_0.801781585

and AIT501 = LT\_7.74131627 then zero

If FIT501 = LT\_0.801781585

and PIT503 = GT\_114.481865

and FIT504 = LT\_0.21173492900000002 then zero

If MV201 = two

and P203 = one

and MV101 = one then zero

If FIT501 = LT\_0.801781585

and AIT202 = LT\_8.9337995

and LIT301 = LT\_1010.5982650000001 then zero

If AIT502 = GT\_68.25173225

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If P101 = two

and PIT502 = GT\_2.8593855

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and AIT201 = GT\_128.5087125 then zero

If FIT501 = LT\_0.801781585

and P301 = one

and FIT502 = LT\_0.3526962995 then zero

If P101 = two

and FIT201 = LT\_2.316278455

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and PIT502 = GT\_2.8593855

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If MV201 = zero

and MV101 = one

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and MV302 = two

and P301 = one then zero

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and P401 = two

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and MV301 = one

and MV302 = two

and MV304 = one

and UV401 = two

and MV101 = one

and MV201 = one

and MV303 = one

and FIT101 = LT\_4.3850686549999995

and LIT101 = GT\_545.1423

and AIT202 = LT\_8.9337995

and FIT201 = LT\_2.316278455

and DPIT301 = LT\_12.544016849999998

and FIT301 = LT\_1.7269319900000002

and LIT301 = LT\_1010.5982650000001

and AIT402 = LT\_6.677774905

and FIT401 = GT\_0.79857865

and AIT501 = GT\_7.74131627

and AIT502 = LT\_68.25173225

and AIT503 = GT\_1016.24585

and AIT504 = GT\_24.82055855

and FIT501 = GT\_0.801781585

and FIT502 = GT\_0.3526962995

and FIT503 = LT\_0.6097366184999999

and PIT501 = LT\_159.94296250000002

and PIT502 = LT\_2.8593855

and PIT503 = LT\_114.481865

and FIT601 = GT\_0.000288341

and AIT201 = LT\_128.5087125 then zero

If LIT401 = LT\_787.028992 then one

If AIT202 = LT\_8.9337995

and LIT301 = GT\_1010.5982650000001 then one

If AIT201 = LT\_128.5087125

and FIT101 = GT\_4.3850686549999995

and P101 = one then one

If AIT201 = LT\_128.5087125

and MV201 = zero

and MV101 = two then one

If AIT201 = LT\_128.5087125

and AIT202 = LT\_8.9337995

and FIT401 = LT\_0.79857865 then one

If AIT201 = LT\_128.5087125

and AIT202 = LT\_8.9337995

and AIT504 = LT\_24.82055855 then one

If AIT201 = LT\_128.5087125

and AIT202 = LT\_8.9337995

and FIT502 = GT\_0.3526962995

and FIT504 = GT\_0.21173492900000002

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and P205 = one

and P301 = two

and P401 = two

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and FIT601 = LT\_0.000288341

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and FIT601 = LT\_0.000288341

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and FIT201 = LT\_2.316278455 then one

If AIT201 = LT\_128.5087125

and MV302 = one

and MV201 = one

and MV101 = two then one

If AIT201 = LT\_128.5087125

and MV302 = one

and MV201 = one

and MV101 = zero then one

If AIT201 = LT\_128.5087125

and MV302 = one

and MV201 = one

and PIT502 = LT\_2.8593855 then one

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and PIT501 = LT\_159.94296250000002

and PIT503 = LT\_114.481865

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and FIT201 = LT\_2.316278455

and DPIT301 = LT\_12.544016849999998

and FIT301 = LT\_1.7269319900000002

and LIT401 = GT\_787.028992

and AIT501 = GT\_7.74131627

and AIT502 = LT\_68.25173225

and AIT503 = GT\_1016.24585

and AIT504 = GT\_24.82055855

and FIT501 = GT\_0.801781585

and FIT502 = GT\_0.3526962995

and FIT503 = LT\_0.6097366184999999

and FIT504 = LT\_0.21173492900000002

and PIT501 = LT\_159.94296250000002

and PIT502 = GT\_2.8593855

and FIT601 = GT\_0.000288341

and AIT201 = LT\_128.5087125 then one

If AIT202 = LT\_8.9337995

and FIT601 = GT\_0.000288341

and FIT502 = GT\_0.3526962995

and P301 = two

and FIT504 = LT\_0.21173492900000002

and FIT401 = GT\_0.79857865

and P101 = one

and P203 = one

and P205 = one

and P401 = two

and P601 = one

and MV301 = one

and MV302 = two

and MV304 = one

and UV401 = two

and MV101 = one

and MV201 = one

and MV303 = one

and FIT101 = LT\_4.3850686549999995

and LIT101 = GT\_545.1423

and AIT203 = LT\_235.8625945

and FIT201 = LT\_2.316278455

and DPIT301 = LT\_12.544016849999998

and FIT301 = LT\_1.7269319900000002

and LIT301 = LT\_1010.5982650000001

and AIT402 = LT\_6.677774905

and LIT401 = GT\_787.028992

and AIT501 = GT\_7.74131627

and AIT502 = LT\_68.25173225

and AIT503 = GT\_1016.24585

and AIT504 = GT\_24.82055855

and FIT501 = GT\_0.801781585

and FIT503 = LT\_0.6097366184999999

and PIT501 = LT\_159.94296250000002

and PIT502 = LT\_2.8593855

and PIT503 = LT\_114.481865

and AIT201 = GT\_128.5087125 then one

If AIT402 = LT\_6.677774905

and AIT502 = GT\_68.25173225

and PIT501 = LT\_159.94296250000002

and FIT601 = LT\_0.000288341

and FIT503 = LT\_0.6097366184999999

and FIT504 = LT\_0.21173492900000002

and FIT501 = LT\_0.801781585

and PIT503 = LT\_114.481865

and P101 = one

and P203 = one

and P205 = one

and P301 = two

and P401 = two

and P601 = one

and MV301 = one

and MV302 = two

and MV304 = one

and UV401 = two

and MV101 = one

and MV201 = one

and MV303 = one

and FIT101 = LT\_4.3850686549999995

and LIT101 = GT\_545.1423

and AIT202 = GT\_8.9337995

and AIT203 = GT\_235.8625945

and FIT201 = LT\_2.316278455

and DPIT301 = LT\_12.544016849999998

and FIT301 = LT\_1.7269319900000002

and LIT301 = GT\_1010.5982650000001

and FIT401 = GT\_0.79857865

and LIT401 = GT\_787.028992

and AIT501 = GT\_7.74131627

and AIT503 = LT\_1016.24585

and AIT504 = GT\_24.82055855

and FIT502 = GT\_0.3526962995

and PIT502 = LT\_2.8593855

and AIT201 = GT\_128.5087125 then one

If AIT402 = LT\_6.677774905

and AIT503 = LT\_1016.24585

and PIT502 = GT\_2.8593855

and AIT201 = GT\_128.5087125

and P101 = two then one

If LIT301 = GT\_1010.5982650000001

and AIT201 = GT\_128.5087125

and FIT504 = GT\_0.21173492900000002

and PIT503 = LT\_114.481865

and DPIT301 = LT\_12.544016849999998

and AIT504 = GT\_24.82055855

and FIT401 = GT\_0.79857865

and FIT503 = GT\_0.6097366184999999

and PIT501 = LT\_159.94296250000002

and P101 = one

and P203 = one

and P205 = one

and P301 = two

and P401 = two

and P601 = one

and MV301 = one

and MV302 = two

and MV304 = one

and UV401 = two

and MV101 = one

and MV201 = one

and MV303 = one

and FIT101 = LT\_4.3850686549999995

and LIT101 = GT\_545.1423

and AIT202 = GT\_8.9337995

and AIT203 = GT\_235.8625945

and FIT201 = LT\_2.316278455

and FIT301 = LT\_1.7269319900000002

and AIT402 = LT\_6.677774905

and LIT401 = GT\_787.028992

and AIT501 = GT\_7.74131627

and AIT502 = GT\_68.25173225

and AIT503 = LT\_1016.24585

and FIT501 = GT\_0.801781585

and FIT502 = GT\_0.3526962995

and PIT502 = LT\_2.8593855

and FIT601 = LT\_0.000288341 then one

Bayes Network Classifier

not using ADTree

#attributes=38 #classindex=0

Network structure (nodes followed by parents)

is\_attack(2):

P101(2): is\_attack

P203(2): is\_attack

P205(2): is\_attack

P301(2): is\_attack

P401(2): is\_attack

P601(2): is\_attack

MV301(3): is\_attack

MV302(3): is\_attack

MV304(3): is\_attack

UV401(2): is\_attack

MV101(3): is\_attack

MV201(3): is\_attack

MV303(3): is\_attack

FIT101(2): is\_attack

LIT101(2): is\_attack

AIT202(2): is\_attack

AIT203(2): is\_attack

FIT201(2): is\_attack

DPIT301(2): is\_attack

FIT301(2): is\_attack

LIT301(2): is\_attack

AIT402(2): is\_attack

FIT401(2): is\_attack

LIT401(2): is\_attack

AIT501(2): is\_attack

AIT502(2): is\_attack

AIT503(2): is\_attack

AIT504(2): is\_attack

FIT501(2): is\_attack

FIT502(2): is\_attack

FIT503(2): is\_attack

FIT504(2): is\_attack

PIT501(2): is\_attack

PIT502(2): is\_attack

PIT503(2): is\_attack

FIT601(2): is\_attack

AIT201(2): is\_attack

LogScore Bayes: -250180.1471975887

LogScore BDeu: -250266.28161081803

LogScore MDL: -250372.35444931136

LogScore ENTROPY: -249954.07851247487

LogScore AIC: -250041.07851247487

Meta classifier

J48 pruned tree

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weka.classifiers.lazy.IBk-1:zero <= 0.699997

| weka.classifiers.lazy.IBk-1:zero <= 0.088237: one (1178.0/12.0)

| weka.classifiers.lazy.IBk-1:zero > 0.088237

| | weka.classifiers.lazy.IBk-1:zero <= 0.454546: one (661.0/167.0)

| | weka.classifiers.lazy.IBk-1:zero > 0.454546: zero (352.0/168.0)

weka.classifiers.lazy.IBk-1:zero > 0.699997: zero (12805.0/98.0)

Number of Leaves : 4

Size of the tree : 7

Time taken to build model: 17.12 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances 14544 96.9859 %

Incorrectly Classified Instances 452 3.0141 %

Kappa statistic 0.8631

Mean absolute error 0.044

Root mean squared error 0.1489

Relative absolute error 19.6359 %

Root relative squared error 44.5194 %

Total Number of Instances 14996

=== Detailed Accuracy By Class ===

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

0.986 0.137 0.980 0.986 0.983 0.863 0.973 0.994 zero

0.863 0.014 0.898 0.863 0.880 0.863 0.973 0.926 one

Weighted Avg. 0.970 0.121 0.969 0.970 0.970 0.863 0.973 0.985

=== Confusion Matrix ===

a b <-- classified as

12882 188 | a = zero

264 1662 | b = one