

附 錄 一

C4.5 [release 8] decision tree generator Sat Jun 07 13:03:34 2001

Options:
File stem <科別01~1>

Read 9893 cases (62 attributes) from 科別01~1.dat

Decision Tree:

```
112 = 0:
| 210 = 1: 250 (242.0/16.2)
| 210 = 0:
| | 265 = 0:
| | | 252 = 0:
| | | | 255 = 0:
| | | | | 105 = 0:
| | | | | | 65 = 0:
| | | | | | | 38 = 0:
| | | | | | | | 205 1 = 0:
| | | | | | | | | 84 = 0:
| | | | | | | | | | 207 = 0:
| | | | | | | | | | | 76 = 0:
| | | | | | | | | | | | 52 = 0:
| | | | | | | | | | | | | 116 = 0:
| | | | | | | | | | | | | | 173 = 0:
| | | | | | | | | | | | | | | 273 = 0:
| | | | | | | | | | | | | | | | 23 = 0:
| | | | | | | | | | | | | | | | | 205 44 = 0:[S1]
| | | | | | | | | | | | | | | | | 205 44 = 1:[S2]
| | | | | | | | | | | | | | | | | | 23 = 1:[S3]
| | | | | | | | | | | | | | | | | | 273 = 1:[S4]
| | | | | | | | | | | | | | | | | | 173 = 1:
| | | | | | | | | | | | | | | | | | | 304 = 1: 464 (2.0/1.8)
| | | | | | | | | | | | | | | | | | | 304 = 0:[S5]
| | | | | | | | | | | | | | | | | | 116 = 1:
| | | | | | | | | | | | | | | | | | | 99 56 = 0:
| | | | | | | | | | | | | | | | | | | | 275 14 = 0:[S6]
| | | | | | | | | | | | | | | | | | | | 275 14 = 1:
| | | | | | | | | | | | | | | | | | | | | 204 = 0:[S7]
| | | | | | | | | | | | | | | | | | | | | 204 = 1:[S8]
| | | | | | | | | | | | | | | | | | 99 56 = 1:
| | | | | | | | | | | | | | | | | | | 177 = 0: 250 (2.0/1.8)
| | | | | | | | | | | | | | | | | | | 177 = 1: 386 (4.0/1.2)
```

| | | | | | | | | | | | | | | 52 = 1:
| | | | | | | | | | | | | | | 205 44 = 0:
| | | | | | | | | | | | | | | 44 275 = 0:
| | | | | | | | | | | | | | | 11 = 0:
| | | | | | | | | | | | | | | 64 = 0:
| | | | | | | | | | | | | | | 116 = 0:[S9]
| | | | | | | | | | | | | | | 116 = 1:[S10]
| | | | | | | | | | | | | | | 64 = 1:[S11]
| | | | | | | | | | | | | | | 11 = 1:[S12]
| | | | | | | | | | | | | | | 44 275 = 1:
| | | | | | | | | | | | | | | 247 = 1: 493 (3.0/2.1)
| | | | | | | | | | | | | | | 247 = 0:[S13]
| | | | | | | | | | | | | | | 205 44 = 1:
| | | | | | | | | | | | | | | 64 = 0:
| | | | | | | | | | | | | | | 227 = 1: 464 (7.0/4.4)
| | | | | | | | | | | | | | | 227 = 0:
| | | | | | | | | | | | | | | 273 = 0:[S14]
| | | | | | | | | | | | | | | 273 = 1:[S15]
| | | | | | | | | | | | | | | 64 = 1:
| | | | | | | | | | | | | | | 36 = 0: 462 (5.0/3.2)
| | | | | | | | | | | | | | | 36 = 1: 461 (3.0/2.1)
| | | | | | | | | | | | | | | 76 = 1:
| | | | | | | | | | | | | | | 52 177 = 0:
| | | | | | | | | | | | | | | 204 = 0:
| | | | | | | | | | | | | | | 14 = 1: 413 (6.0/1.2)
| | | | | | | | | | | | | | | 14 = 0:
| | | | | | | | | | | | | | | 1 = 1: 250 (2.0/1.0)
| | | | | | | | | | | | | | | 1 = 0:[S16]
| | | | | | | | | | | | | | | 204 = 1:
| | | | | | | | | | | | | | | 177 = 0: 564 (4.0/2.2)
| | | | | | | | | | | | | | | 177 = 1: 493 (2.0/1.8)
| | | | | | | | | | | | | | | 52 177 = 1:
| | | | | | | | | | | | | | | 52 308 253 = 1: 460 (3.0/2.8)
| | | | | | | | | | | | | | | 52 308 253 = 0:
| | | | | | | | | | | | | | | 44 275 14 = 1: 413 (2.0/1.0)
| | | | | | | | | | | | | | | 44 275 14 = 0:
| | | | | | | | | | | | | | | 176 = 1: 413 (2.0/1.8)
| | | | | | | | | | | | | | | 176 = 0:[S17]
| | | | | | | | | | | | | | | 207 = 1:
| | | | | | | | | | | | | | | 273 = 0:
| | | | | | | | | | | | | | | 52 = 1: 464 (26.0/18.1)
| | | | | | | | | | | | | | | 52 = 0:
| | | | | | | | | | | | | | | 64 = 0:
| | | | | | | | | | | | | | | 308 = 0:
| | | | | | | | | | | | | | | 205 = 1: 413 (5.0/3.2)
| | | | | | | | | | | | | | | 205 = 0:
| | | | | | | | | | | | | | | 36 204 = 0:[S18]

64 = 1: 789 (2.0/1.0)
116 = 1:
177 = 0:
205 84 = 0: 462 (2.0/1.8)
205 84 = 1: 558 (4.0/3.1)
177 = 1:
205 = 0: 493 (3.0/2.1)
205 = 1: 460 (3.0/2.8)
205 1 = 1:
205 273 = 1: 462 (14.0/8.8)
205 273 = 0:
52 308 = 1: 464 (6.0/3.3)
52 308 = 0:
11 = 0:
275 = 1: 250 (3.0/2.8)
275 = 0:
156 = 1: 789 (31.0/11.4)
156 = 0:
173 = 1: 462 (2.0/1.8)
173 = 0:
144 = 0:[S25]
144 = 1:[S26]
11 = 1:
156 = 0: 533 (13.0/7.7)
156 = 1: 250 (3.0/2.1)
38 = 1:
215 = 1: 280 (3.0/2.8)
215 = 0:
273 = 0:
205 1 = 1: 401 (3.0/2.8)
205 1 = 0:
84 = 0:
36 = 0:
204 = 0: 250 (257.0/90.8)
204 = 1: 401 (3.0/2.1)
36 = 1:
176 = 0: 250 (121.0/50.3)
176 = 1:
204 = 0: 401 (11.0/4.6)
204 = 1: 250 (6.0/5.1)
84 = 1:
205 = 0: 571 (7.0/3.4)
205 = 1: 250 (6.0/2.3)
273 = 1:
275 = 1: 401 (2.0/1.8)
275 = 0:
160 = 1: 242 (2.0/1.8)

												160 = 0:
												44 = 0: 250 (16.0/9.8)
												44 = 1: 462 (4.0/1.2)
												65 = 1:
												44 = 1: 413 (7.0/5.3)
												44 = 0:
												156 = 0:
												116 = 0:
												1 = 1: 250 (6.0/3.3)
												1 = 0:
												207 = 1: 246 (3.0/2.8)
												207 = 0:
												76 = 1: 493 (3.0/2.1)
												76 = 0:
												52 = 1: 465 (33.0/18.5)
												52 = 0:
												93 = 1: 401 (5.0/3.2)
												93 = 0:
												99 = 0:[S27]
												99 = 1:[S28]
												116 = 1:
												99 = 0: 784 (19.0/11.0)
												99 = 1: 242 (5.0/4.1)
												156 = 1:
												236 = 1: 571 (4.0/2.2)
												236 = 0:
												36 = 0: 401 (3.0/2.8)
												36 = 1: 250 (2.0/1.0)
												105 = 1:
												44 = 0:
												52 = 0:
												205 = 0:
												160 = 0: 250 (37.0/23.5)
												160 = 1:
												156 = 0:
												236 = 1: 242 (10.0/8.3)
												236 = 0:
												65 = 1: 250 (21.0/16.8)
												65 = 0:
												99 = 1: 244 (8.0/5.4)
												99 = 0:
												36 = 0: 571 (120.0/86.9)
												36 = 1: 244 (2.0/1.0)
												156 = 1:
												273 = 1: 246 (3.0/2.1)
												273 = 0:
												36 = 0: 250 (11.0/5.6)

| | | | | | | | | | | | | 36 = 1:
 | | | | | | | | | | | | | 236 = 0: 244 (2.0/1.0)
 | | | | | | | | | | | | | 236 = 1: 250 (2.0/1.8)
 | | | | | | | | | | | | | 205 = 1:
 | | | | | | | | | | | | | 1 = 1: 244 (2.0/1.8)
 | | | | | | | | | | | | | 1 = 0:
 | | | | | | | | | | | | | 36 = 1: 571 (2.0/1.0)
 | | | | | | | | | | | | | 36 = 0:
 | | | | | | | | | | | | | 65 = 0: 571 (6.0/4.3)
 | | | | | | | | | | | | | 65 = 1:
 | | | | | | | | | | | | | 99 = 0: 715 (2.0/1.0)
 | | | | | | | | | | | | | 99 = 1: 250 (3.0/2.1)
 | | | | | | | | | | | | | 52 = 1:
 | | | | | | | | | | | | | 99 56 = 1: 250 (2.0/1.0)
 | | | | | | | | | | | | | 99 56 = 0:
 | | | | | | | | | | | | | 65 = 1: 162 (4.0/3.1)
 | | | | | | | | | | | | | 65 = 0:
 | | | | | | | | | | | | | 99 = 0: 493 (8.0/6.3)
 | | | | | | | | | | | | | 99 = 1: 244 (3.0/1.1)
 | | | | | | | | | | | | | 44 = 1:
 | | | | | | | | | | | | | 205 = 1: 493 (2.0/1.8)
 | | | | | | | | | | | | | 205 = 0:
 | | | | | | | | | | | | | 275 = 0: 413 (3.0/1.1)
 | | | | | | | | | | | | | 275 = 1: 250 (2.0/1.0)
 | | | | | | | | | | | | | 255 = 1:
 | | | | | | | | | | | | | 38 = 1: 250 (7.0/3.4)
 | | | | | | | | | | | | | 38 = 0:
 | | | | | | | | | | | | | 207 = 1: 413 (5.0/3.2)
 | | | | | | | | | | | | | 207 = 0:
 | | | | | | | | | | | | | 270 = 0:
 | | | | | | | | | | | | | 52 99 = 0:
 | | | | | | | | | | | | | 52 = 0:
 | | | | | | | | | | | | | 144 = 1: 789 (7.0/2.4)
 | | | | | | | | | | | | | 144 = 0:
 | | | | | | | | | | | | | 116 = 0:
 | | | | | | | | | | | | | 99 = 0:
 | | | | | | | | | | | | | 145 = 1: 464 (2.0/1.8)
 | | | | | | | | | | | | | 145 = 0:
 | | | | | | | | | | | | | 84 = 1: 789 (12.0/8.6)
 | | | | | | | | | | | | | 84 = 0:
 | | | | | | | | | | | | | 1 = 0:[S29]
 | | | | | | | | | | | | | 1 = 1:[S30]
 | | | | | | | | | | | | | 99 = 1:
 | | | | | | | | | | | | | 99 56 = 0:
 | | | | | | | | | | | | | 177 = 0: 571 (2.0/1.8)
 | | | | | | | | | | | | | 177 = 1: 009 (12.0/6.7)
 | | | | | | | | | | | | | 99 56 = 1:

| | | | | | | | | | | | | | 177 = 0: 250 (2.0/1.8)
 | | | | | | | | | | | | | | 177 = 1: 789 (4.0/3.1)
 | | | | | | | | | | | | | | 116 = 1:
 | | | | | | | | | | | | | | 177 = 0: 558 (2.0/1.8)
 | | | | | | | | | | | | | | 177 = 1: 386 (2.0/1.0)
 | | | | | | | | | | | | | | 52 = 1:
 | | | | | | | | | | | | | | 52 177 = 0: 162 (10.0/7.5)
 | | | | | | | | | | | | | | 52 177 = 1:
 | | | | | | | | | | | | | | 205 = 0: 462 (4.0/2.2)
 | | | | | | | | | | | | | | 205 = 1: 558 (3.0/2.8)
 | | | | | | | | | | | | | | 52 99 = 1:
 | | | | | | | | | | | | | | 205 = 1: 789 (3.0/2.1)
 | | | | | | | | | | | | | | 205 = 0:
 | | | | | | | | | | | | | | 227 = 0: 009 (4.0/1.2)
 | | | | | | | | | | | | | | 227 = 1: 280 (2.0/1.0)
 | | | | | | | | | | | | | | 270 = 1:
 | | | | | | | | | | | | | | 99 = 0: 533 (4.0/2.2)
 | | | | | | | | | | | | | | 99 = 1: 009 (2.0/1.8)
 | | | | | | | | | | | | | | 252 = 1:
 | | | | | | | | | | | | | | 255 = 0:
 | | | | | | | | | | | | | | 76 = 0: 465 (389.0/94.4)
 | | | | | | | | | | | | | | 76 = 1: 493 (7.0/1.3)
 | | | | | | | | | | | | | | 255 = 1:
 | | | | | | | | | | | | | | 116 = 0: 558 (2.0/1.0)
 | | | | | | | | | | | | | | 116 = 1: 784 (2.0/1.0)
 | | | | | | | | | | | | | | 265 = 1:
 | | | | | | | | | | | | | | 205 273 = 1: 462 (2.0/1.8)
 | | | | | | | | | | | | | | 205 273 = 0:
 | | | | | | | | | | | | | | 52 308 = 0:
 | | | | | | | | | | | | | | 38 = 0:
 | | | | | | | | | | | | | | 156 = 1: 250 (3.0/2.8)
 | | | | | | | | | | | | | | 156 = 0:
 | | | | | | | | | | | | | | 64 = 0:
 | | | | | | | | | | | | | | 177 93 = 0:
 | | | | | | | | | | | | | | 177 = 0: 533 (58.0/13.7)
 | | | | | | | | | | | | | | 177 = 1:
 | | | | | | | | | | | | | | 205 = 1: 533 (89.0/44.8)
 | | | | | | | | | | | | | | 205 = 0:
 | | | | | | | | | | | | | | 84 = 0: 578 (23.0/15.1)
 | | | | | | | | | | | | | | 84 = 1: 789 (14.0/9.7)
 | | | | | | | | | | | | | | 177 93 = 1:
 | | | | | | | | | | | | | | 236 = 1: 533 (2.0/1.0)
 | | | | | | | | | | | | | | 236 = 0:
 | | | | | | | | | | | | | | 205 1 = 0: 789 (8.0/3.5)
 | | | | | | | | | | | | | | 205 1 = 1: 533 (3.0/2.1)
 | | | | | | | | | | | | | | 64 = 1:
 | | | | | | | | | | | | | | 205 = 0: 280 (5.0/3.2)

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| | | | | | | 205 = 1: 789 (7.0/3.4)
| | | | | 38 = 1:
| | | | | | 205 = 0: 401 (2.0/1.8)
| | | | | | 205 = 1: 250 (3.0/1.1)
| | | | | 52 308 = 1:
| | | | | | 205 = 0: 280 (2.0/1.8)
| | | | | | 205 = 1: 465 (2.0/1.0)
112 = 1:
| 247 = 1: 386 (3.0/2.8)
| 247 = 0:
| | 205 44 = 0:
| | | 14 = 1: 413 (2.0/1.8)
| | | 14 = 0:
| | | | 304 = 1: 490 (2.0/1.8)
| | | | 304 = 0:
| | | | | 207 = 0:
| | | | | | 160 = 1: 719 (2.0/1.0)
| | | | | | 160 = 0:
| | | | | | 36 = 0:
| | | | | | | 177 = 1: 719 (4.0/3.1)
| | | | | | | 177 = 0:
| | | | | | | 205 = 0: 250 (15.0/10.7)
| | | | | | | 205 = 1: 533 (5.0/4.1)
| | | | | | | 36 = 1:
| | | | | | | 204 = 0: 401 (6.0/4.3)
| | | | | | | 204 = 1: 250 (4.0/2.2)
| | | | | | 207 = 1:
| | | | | | | 204 = 1: 401 (2.0/1.8)
| | | | | | | 204 = 0:
| | | | | | | 210 = 1: 250 (4.0/2.2)
| | | | | | | 210 = 0:
| | | | | | | 11 = 0: 242 (169.0/17.2)
| | | | | | | 11 = 1:
| | | | | | | 205 = 0: 246 (2.0/1.0)
| | | | | | | 205 = 1: 242 (2.0/1.0)
| | 205 44 = 1:
| | | 308 = 0: 786 (2.0/1.0)
| | | 308 = 1: 427 (2.0/1.8)

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Subtree [S1]

```

205 = 0:
| 1 = 0:
| | 304 = 0:
| | | 93 = 0:
| | | | 156 = 0:
| | | | | 145 = 0:

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						64 = 0:
						253 = 0:
						99 = 0:
						144 = 0:
						247 = 0:
						44 = 0:
						227 = 0:
						14 = 1: 413 (11.0/5.6)
						14 = 0:
						177 = 0:
						11 = 1: 564 (14.0/11.5)
						11 = 0:
						176 = 0:[S31]
						176 = 1:[S32]
						177 = 1:
						36 = 0: 571 (96.0/79.1)
						36 = 1:[S33]
						227 = 1:
						160 = 1: 250 (2.0/1.8)
						160 = 0:
						308 = 0: 462 (15.0/7.8)
						308 = 1: 461 (4.0/3.1)
						44 = 1:
						14 = 1: 413 (147.0/101.4)
						14 = 0:
						44 275 = 0:
						308 = 0: 413 (68.0/46.2)
						308 = 1: 465 (2.0/1.8)
						44 275 = 1:
						177 = 0:
						11 = 0: 401 (8.0/5.4)
						11 = 1: 242 (2.0/1.0)
						177 = 1:
						36 = 0: 427 (7.0/5.3)
						36 = 1: 401 (5.0/3.2)
						247 = 1:
						36 204 = 0:
						44 = 0: 493 (64.0/45.0)
						44 = 1:
						177 = 0: 464 (2.0/1.0)
						177 = 1: 413 (2.0/1.8)
						36 204 = 1:
						275 = 0: 401 (9.0/7.3)
						275 = 1: 413 (4.0/2.2)
						144 = 1:
						36 204 = 1: 401 (11.0/4.6)
						36 204 = 0:

| | | | | | | | | | | 177 = 0:
 | | | | | | | | | | | | 204 = 1: 401 (35.0/21.5)
 | | | | | | | | | | | | 204 = 0:
 | | | | | | | | | | | | | 99 = 1: 427 (6.0/4.3)
 | | | | | | | | | | | | | 99 = 0:
 | | | | | | | | | | | | | 227 = 0: 386 (98.0/75.4)
 | | | | | | | | | | | | | 227 = 1: 250 (2.0/1.8)
 | | | | | | | | | | | | | 160 = 1:
 | | | | | | | | | | | | | | 177 = 0: 462 (9.0/6.4)
 | | | | | | | | | | | | | | 177 = 1: 386 (2.0/1.8)
 | | | | | | | | | | | | | | 270 = 1:
 | | | | | | | | | | | | | | | 36 = 0: 386 (2.0/1.8)
 | | | | | | | | | | | | | | | 36 = 1: 250 (3.0/1.1)
 | | | | | | | | | | | | | | | 275 14 = 1:
 | | | | | | | | | | | | | | | | 177 = 0: 413 (12.0/5.7)
 | | | | | | | | | | | | | | | | 177 = 1:
 | | | | | | | | | | | | | | | | | 99 = 0: 272 (7.0/5.3)
 | | | | | | | | | | | | | | | | | 99 = 1: 413 (2.0/1.0)
 | | | | | | | | | | | | | | | | 145 = 1:
 | | | | | | | | | | | | | | | | | 99 = 0:
 | | | | | | | | | | | | | | | | | | 64 = 0:
 | | | | | | | | | | | | | | | | | | 247 = 1: 462 (3.0/2.1)
 | | | | | | | | | | | | | | | | | | 247 = 0:
 | | | | | | | | | | | | | | | | | | 36 204 = 1: 413 (7.0/5.3)
 | | | | | | | | | | | | | | | | | | 36 204 = 0:
 | | | | | | | | | | | | | | | | | | 44 14 = 0: 782 (46.0/33.6)
 | | | | | | | | | | | | | | | | | | 44 14 = 1: 413 (9.0/6.4)
 | | | | | | | | | | | | | | | | | | 64 = 1:
 | | | | | | | | | | | | | | | | | | | 204 = 0: 413 (3.0/2.1)
 | | | | | | | | | | | | | | | | | | | 204 = 1: 386 (3.0/2.8)
 | | | | | | | | | | | | | | | | | | 99 = 1:
 | | | | | | | | | | | | | | | | | | | 56 = 0: 401 (3.0/2.1)
 | | | | | | | | | | | | | | | | | | | 56 = 1: 571 (2.0/1.0)
 | | | | | | | | | | | | | | | | | | 156 = 1:
 | | | | | | | | | | | | | | | | | | | 144 = 1: 162 (3.0/2.8)
 | | | | | | | | | | | | | | | | | | | 144 = 0:
 | | | | | | | | | | | | | | | | | | | 145 = 0: 250 (52.0/37.7)
 | | | | | | | | | | | | | | | | | | | 145 = 1: 571 (2.0/1.8)
 | | | | | | | | | | | | | | | | | | 93 = 1:
 | | | | | | | | | | | | | | | | | | | 144 = 1: 246 (3.0/2.8)
 | | | | | | | | | | | | | | | | | | | 144 = 0:
 | | | | | | | | | | | | | | | | | | | 275 = 0:
 | | | | | | | | | | | | | | | | | | | | 132 = 1: 162 (5.0/2.3)
 | | | | | | | | | | | | | | | | | | | | 132 = 0:
 | | | | | | | | | | | | | | | | | | | | 44 = 0:
 | | | | | | | | | | | | | | | | | | | | 308 = 0:
 | | | | | | | | | | | | | | | | | | | | 36 = 0:

| | | | | | | | | | 11 = 1: 465 (10.0/5.6)
 | | | | | | | | | | 11 = 0:
 | | | | | | | | | | 99 56 = 0:
 | | | | | | | | | | 177 = 0:
 | | | | | | | | | | 160 = 1: 462 (2.0/1.0)
 | | | | | | | | | | 160 = 0:
 | | | | | | | | | | 253 = 0: 465 (45.0/35.4)
 | | | | | | | | | | 253 = 1: 464 (2.0/1.8)
 | | | | | | | | | | 177 = 1:
 | | | | | | | | | | 247 = 1: 401 (2.0/1.8)
 | | | | | | | | | | 247 = 0:
 | | | | | | | | | | 227 = 1: 462 (4.0/3.1)
 | | | | | | | | | | 227 = 0:
 | | | | | | | | | | 99 = 1: 464 (4.0/3.1)
 | | | | | | | | | | 99 = 0:[S35]
 | | | | | | | | | | 99 56 = 1:
 | | | | | | | | | | 177 = 0: 462 (5.0/4.1)
 | | | | | | | | | | 177 = 1: 009 (3.0/1.1)
 | | | | | | | | | | 36 = 1:
 | | | | | | | | | | 204 = 0: 427 (4.0/3.1)
 | | | | | | | | | | 204 = 1:
 | | | | | | | | | | 177 93 = 0: 462 (3.0/2.8)
 | | | | | | | | | | 177 93 = 1: 558 (4.0/3.1)
 | | | | | | | | | | 308 = 1:
 | | | | | | | | | | 308 253 = 0: 009 (4.0/3.8)
 | | | | | | | | | | 308 253 = 1: 464 (3.0/2.1)
 | | | | | | | | | | 44 = 1:
 | | | | | | | | | | 177 = 0: 462 (3.0/2.1)
 | | | | | | | | | | 177 = 1: 250 (2.0/1.8)
 | | | | | | | | | | 275 = 1:
 | | | | | | | | | | 36 = 0: 413 (3.0/2.1)
 | | | | | | | | | | 36 = 1: 401 (2.0/1.8)
 | | | | | | | | | | 304 = 1:
 | | | | | | | | | | 270 = 1: 427 (2.0/1.8)
 | | | | | | | | | | 270 = 0:
 | | | | | | | | | | 227 = 1: 462 (3.0/2.1)
 | | | | | | | | | | 227 = 0:
 | | | | | | | | | | 44 275 = 0:
 | | | | | | | | | | 36 = 0:
 | | | | | | | | | | 44 = 0: 493 (23.0/9.1)
 | | | | | | | | | | 44 = 1:
 | | | | | | | | | | 177 = 0: 460 (7.0/5.3)
 | | | | | | | | | | 177 = 1: 428 (3.0/2.8)
 | | | | | | | | | | 36 = 1:
 | | | | | | | | | | 177 = 1: 401 (2.0/1.0)
 | | | | | | | | | | 177 = 0:
 | | | | | | | | | | 247 = 0: 464 (4.0/2.2)

```

| | | | | | | 247 = 1: 493 (2.0/1.8)
| | | | | 44 275 = 1:
| | | | | 177 = 0: 493 (5.0/2.3)
| | | | | 177 = 1: 786 (3.0/2.1)
| 1 = 1:
| | 11 = 0:
| | | 308 = 0: 789 (52.0/39.6)
| | | 308 = 1: 462 (2.0/1.8)
| | 11 = 1:
| | | 36 = 0: 532 (2.0/1.8)
| | | 36 = 1: 401 (2.0/1.0)
205 = 1:
| 308 = 0:
| | 177 = 0:
| | | 144 = 0:
| | | | 36 204 = 1: 719 (5.0/4.1)
| | | | 36 204 = 0:
| | | | 93 = 1: 599 (5.0/4.1)
| | | | 93 = 0:
| | | | 36 = 0:
| | | | 56 = 0:
| | | | 11 = 0:
| | | | 99 = 1: 246 (20.0/17.5)
| | | | 99 = 0:
| | | | 132 = 1: 413 (2.0/1.8)
| | | | 132 = 0:
| | | | 270 = 0: 533 (95.0/80.0)
| | | | 270 = 1:
| | | | 145 = 0: 715 (2.0/1.8)
| | | | 145 = 1: 272 (2.0/1.8)
| | | | 11 = 1:
| | | | 99 = 0: 715 (5.0/2.3)
| | | | 99 = 1: 250 (4.0/3.8)
| | | | 56 = 1:
| | | | 236 = 0: 789 (4.0/3.1)
| | | | 236 = 1: 719 (2.0/1.0)
| | | | 36 = 1:
| | | | 11 = 0: 401 (10.0/7.5)
| | | | 11 = 1: 246 (2.0/1.8)
| | | 144 = 1:
| | | | 36 = 0: 719 (13.0/9.6)
| | | | 36 = 1: 250 (6.0/4.3)
| 177 = 1:
| | 247 = 1: 272 (3.0/2.8)
| | 247 = 0:
| | | 64 = 0: 789 (65.0/38.2)
| | | 64 = 1: 413 (2.0/1.8)

```

```

| 308 = 1:
| | 99 = 1: 599 (4.0/3.1)
| | 99 = 0:
| | | 177 = 0: 274 (7.0/2.4)
| | | 177 = 1: 558 (2.0/1.8)

```

Subtree [S2]

```

247 = 0:
| 156 = 0:
| | 44 275 = 0:
| | | 177 = 0:
| | | | 14 = 0:
| | | | | 36 = 0: 413 (63.0/45.0)
| | | | | 36 = 1: 786 (6.0/3.3)
| | | | | 14 = 1:
| | | | | 176 = 0: 786 (14.0/8.8)
| | | | | 176 = 1: 386 (2.0/1.8)
| | | | 177 = 1:
| | | | 177 93 = 0: 786 (17.0/9.9)
| | | | 177 93 = 1: 413 (4.0/3.1)
| | | 44 275 = 1:
| | | | 177 = 1: 401 (6.0/4.3)
| | | | 177 = 0:
| | | | 44 275 14 = 0: 571 (2.0/1.0)
| | | | 44 275 14 = 1:
| | | | | 56 = 0: 427 (7.0/5.3)
| | | | | 56 = 1: 413 (2.0/1.8)
| 156 = 1:
| | 99 = 0: 786 (8.0/4.5)
| | 99 = 1: 401 (5.0/2.3)
247 = 1:
| 275 = 1: 428 (3.0/1.1)
| 275 = 0:
| | 99 = 0: 493 (2.0/1.0)
| | 99 = 1: 530 (2.0/1.8)

```

Subtree [S3]

```

308 = 1: 464 (3.0/1.1)
308 = 0:
| 64 = 0:
| | 93 = 1: 401 (4.0/3.8)
| | 93 = 0:
| | | 36 = 0:
| | | | 44 = 1: 413 (5.0/4.1)
| | | | 44 = 0:

```

```

| | | | | 247 = 1: 413 (2.0/1.0)
| | | | | 247 = 0:
| | | | | | 253 = 1: 280 (2.0/1.0)
| | | | | | 253 = 0:
| | | | | | | 156 = 0:
| | | | | | | 205 = 0: 719 (36.0/18.6)
| | | | | | | 205 = 1:
| | | | | | | | 99 = 0:
| | | | | | | | 160 = 0: 571 (22.0/17.8)
| | | | | | | | 160 = 1: 719 (2.0/1.0)
| | | | | | | | 99 = 1:
| | | | | | | | 236 = 0: 401 (4.0/3.1)
| | | | | | | | 236 = 1: 719 (2.0/1.0)
| | | | | | | | 156 = 1:
| | | | | | | | 205 = 0: 280 (4.0/2.2)
| | | | | | | | 205 = 1: 715 (2.0/1.8)
| | | | 36 = 1:
| | | | 44 275 14 = 1: 719 (3.0/2.1)
| | | | 44 275 14 = 0:
| | | | | 99 = 1: 401 (2.0/1.8)
| | | | | 99 = 0:
| | | | | 205 = 0:
| | | | | | 204 = 0: 595 (3.0/2.1)
| | | | | | 204 = 1: 401 (3.0/2.8)
| | | | | | 205 = 1:
| | | | | | 156 = 0: 564 (2.0/1.0)
| | | | | | 156 = 1: 462 (2.0/1.0)
| 64 = 1:
| | 177 = 1: 386 (2.0/1.8)
| | 177 = 0:
| | | 44 14 = 0: 465 (4.0/3.1)
| | | 44 14 = 1: 462 (2.0/1.8)

```

Subtree [S4]

```

247 = 1: 493 (5.0/2.3)
247 = 0:
| 132 = 1: 246 (10.0/3.5)
| 132 = 0:
| | 11 = 0: 462 (175.0/80.1)
| | 11 = 1: 465 (5.0/4.1)

```

Subtree [S5]

```

275 = 1: 386 (2.0/1.8)
275 = 0:
| 44 = 1: 464 (2.0/1.8)

```

```

| 44 = 0:
| | 253 = 0: 462 (80.0/42.6)
| | 253 = 1: 461 (7.0/5.3)

```

Subtree [S6]

```

247 = 1: 493 (4.0/2.2)
247 = 0:
| 227 = 0:
| | 44 = 0:
| | | 36 204 = 0:
| | | | 205 = 0:
| | | | | 176 = 1: 250 (4.0/3.1)
| | | | | 176 = 0:
| | | | | | 173 = 1: 462 (6.0/3.3)
| | | | | | 173 = 0:
| | | | | | | 273 = 1: 462 (8.0/5.4)
| | | | | | | 273 = 0:
| | | | | | | | 99 = 1: 784 (19.0/10.0)
| | | | | | | | 99 = 0:
| | | | | | | | | 64 = 1: 462 (6.0/4.3)
| | | | | | | | | 64 = 0:
| | | | | | | | | | 160 = 1: 462 (3.0/2.1)
| | | | | | | | | | 160 = 0:
| | | | | | | | | | | 93 = 0: 784 (146.0/93.5)
| | | | | | | | | | | 93 = 1: 465 (10.0/7.5)
| | | | | | | 205 = 1:
| | | | | | | | 64 = 1: 462 (3.0/2.1)
| | | | | | | | 64 = 0:
| | | | | | | | | 99 = 1: 784 (3.0/1.1)
| | | | | | | | | 99 = 0:
| | | | | | | | | | 93 = 1: 462 (4.0/1.2)
| | | | | | | | | | 93 = 0:
| | | | | | | | | | | 23 = 0: 464 (11.0/6.6)
| | | | | | | | | | | 23 = 1: 462 (4.0/2.2)
| | | | | | | 36 204 = 1:
| | | | | | | | 205 = 0: 462 (16.0/14.3)
| | | | | | | | 205 = 1: 401 (3.0/2.8)
| | | | | | 44 = 1:
| | | | | | | 144 = 0: 413 (8.0/5.4)
| | | | | | | 144 = 1: 464 (2.0/1.8)
| 227 = 1:
| | 36 204 = 0: 460 (4.0/2.2)
| | 36 204 = 1: 462 (2.0/1.8)

```

Subtree [S7]

64 = 0: 413 (8.0/4.5)

64 = 1: 784 (5.0/3.2)

Subtree [S8]

308 = 0: 493 (3.0/2.1)

308 = 1: 784 (3.0/2.1)

Subtree [S9]

177 93 = 0:

| 247 = 0:

| | 14 = 0:

| | | 205 273 = 0:

| | | | 205 = 0:

| | | | | 204 = 0:

| | | | | | 227 = 0:

| | | | | | | 177 = 0:

| | | | | | | | 52 308 = 0:

| | | | | | | | | 36 = 0:

| | | | | | | | | | 132 = 0:

| | | | | | | | | | | 52 99 = 0:

| | | | | | | | | | | | 173 = 1: 462 (54.0/36.9)

| | | | | | | | | | | | 173 = 0:

| | | | | | | | | | | | | 273 = 0:

| | | | | | | | | | | | | | 23 = 1: 531 (3.0/2.1)

| | | | | | | | | | | | | | 23 = 0:

| | | | | | | | | | | | | | | 145 = 1: 250 (3.0/2.8)

| | | | | | | | | | | | | | | 145 = 0:

| | | | | | | | | | | | | | | | 176 = 0:[S36]

| | | | | | | | | | | | | | | | 176 = 1:[S37]

| | | | | | | | | | | | | | | | 273 = 1:

| | | | | | | | | | | | | | | | | 44 = 1: 493 (4.0/1.2)

| | | | | | | | | | | | | | | | | 44 = 0:

| | | | | | | | | | | | | | | | | 275 = 1: 461 (2.0/1.8)

| | | | | | | | | | | | | | | | | 275 = 0:[S38]

| | | | | | | | | | | | | | | | | 52 99 = 1:

| | | | | | | | | | | | | | | | | | 236 = 0: 464 (110.0/73.9)

| | | | | | | | | | | | | | | | | | 236 = 1: 462 (11.0/8.5)

| | | | | | | | | | | | | | | | | 132 = 1:

| | | | | | | | | | | | | | | | | | 273 = 1: 571 (2.0/1.0)

| | | | | | | | | | | | | | | | | 273 = 0:

| | | | | | | | | | | | | | | | | | 176 = 0: 462 (8.0/4.5)

| | | | | | | | | | | | | | | | | | 176 = 1: 464 (5.0/4.1)

| | | | | | | | | | | | | | | | | 36 = 1:

| | | | | | | | | | | | | | | | | | 44 = 1: 490 (2.0/1.8)

| | | | | | | | | | | | | | | | | 44 = 0:

| | | | | | | | | | | 52 273 = 0:
 | | | | | | | | | | | 99 56 = 0: 464 (32.0/22.3)
 | | | | | | | | | | | 99 56 = 1: 465 (2.0/1.8)
 | | | | | | | | | | | 52 273 = 1:
 | | | | | | | | | | | 52 99 = 0: 272 (2.0/1.8)
 | | | | | | | | | | | 52 99 = 1: 465 (3.0/2.1)
 | | | | | | | | | 52 308 = 1:
 | | | | | | | | | 304 = 1: 464 (31.0/19.4)
 | | | | | | | | | 304 = 0:
 | | | | | | | | | 236 = 1: 465 (5.0/3.2)
 | | | | | | | | | 236 = 0:
 | | | | | | | | | 52 99 = 1: 464 (29.0/21.2)
 | | | | | | | | | 52 99 = 0:
 | | | | | | | | | 173 = 0:
 | | | | | | | | | 36 = 1: 462 (18.0/13.7)
 | | | | | | | | | 36 = 0:
 | | | | | | | | | 52 308 253 = 0:
 | | | | | | | | | 176 = 1: 401 (6.0/3.3)
 | | | | | | | | | 176 = 0:[S39]
 | | | | | | | | | 52 308 253 = 1:
 | | | | | | | | | 44 = 0: 464 (178.0/122.8)
 | | | | | | | | | 44 = 1: 490 (2.0/1.8)
 | | | | | | | | | 173 = 1:
 | | | | | | | | | 52 308 253 = 1: 462 (8.0/5.4)
 | | | | | | | | | 52 308 253 = 0:
 | | | | | | | | | 273 = 0: 461 (2.0/1.0)
 | | | | | | | | | 273 = 1: 464 (2.0/1.8)
 | | | | | | | | 177 = 1:
 | | | | | | | | 1 = 1: 533 (2.0/1.8)
 | | | | | | | | 1 = 0:
 | | | | | | | | 145 = 1: 244 (3.0/2.8)
 | | | | | | | | 145 = 0:
 | | | | | | | | 304 = 0:
 | | | | | | | | 52 253 = 1: 464 (32.0/18.4)
 | | | | | | | | 52 253 = 0:
 | | | | | | | | 144 = 1: 571 (2.0/1.8)
 | | | | | | | | 144 = 0:
 | | | | | | | | 52 308 = 0: 462 (35.0/19.5)
 | | | | | | | | 52 308 = 1: 786 (8.0/6.3)
 | | | | | | | | 304 = 1:
 | | | | | | | | 176 = 0: 493 (3.0/2.1)
 | | | | | | | | 176 = 1: 464 (6.0/3.3)
 | | | | | | | | 227 = 1:
 | | | | | | | | 132 = 0:
 | | | | | | | | 99 = 1: 464 (16.0/5.8)
 | | | | | | | | 99 = 0:
 | | | | | | | | 52 308 = 0: 462 (59.0/31.2)

| | | | | 93 = 1: 464 (10.0/5.6)
 | | | | | 36 = 1:
 | | | | | 52 177 = 1: 462 (2.0/1.8)
 | | | | | 52 177 = 0:
 | | | | | | 36 204 = 1: 464 (3.0/2.1)
 | | | | | | 36 204 = 0:
 | | | | | | 93 = 0: 242 (7.0/2.4)
 | | | | | | 93 = 1: 464 (2.0/1.8)
 | | 14 = 1:
 | | 36 = 0:
 | | | 44 = 0:
 | | | 177 = 0: 413 (3.0/2.8)
 | | | 177 = 1: 427 (4.0/2.2)
 | | | 44 = 1:
 | | | 52 273 = 1: 462 (3.0/1.1)
 | | | 52 273 = 0:
 | | | | 52 308 = 0: 437 (7.0/2.4)
 | | | | 52 308 = 1: 462 (2.0/1.0)
 | | 36 = 1:
 | | | 308 = 0: 571 (2.0/1.0)
 | | | 308 = 1: 413 (2.0/1.8)
 | 247 = 1:
 | 270 = 0:
 | | 173 = 1: 460 (3.0/2.8)
 | | 173 = 0:
 | | | 52 253 = 0: 493 (53.0/32.0)
 | | | 52 253 = 1: 464 (18.0/5.9)
 | | 270 = 1:
 | | | 52 177 = 1: 401 (2.0/1.8)
 | | | 52 177 = 0:
 | | | 304 = 0: 493 (2.0/1.0)
 | | | 304 = 1: 719 (5.0/2.3)
 | 177 93 = 1:
 | 304 = 0:
 | | 56 = 0:
 | | | 205 = 0:
 | | | 204 = 0:
 | | | | 36 = 1: 462 (19.0/11.0)
 | | | | 36 = 0:
 | | | | 273 = 0:
 | | | | 160 = 1: 462 (9.0/4.5)
 | | | | 160 = 0:
 | | | | 253 = 0:
 | | | | 173 = 0: 464 (72.0/43.4)
 | | | | 173 = 1: 462 (11.0/6.6)
 | | | | 253 = 1:
 | | | | 52 308 253 = 0: 462 (31.0/18.4)

```

| | | | | | | | | 52 308 253 = 1:
| | | | | | | | | 99 = 0: 464 (34.0/18.5)
| | | | | | | | | 99 = 1: 462 (3.0/1.1)
| | | | | | 273 = 1:
| | | | | | 52 253 = 0: 462 (14.0/6.8)
| | | | | | 52 253 = 1: 413 (5.0/3.2)
| | | | 204 = 1:
| | | | | 52 273 = 0: 464 (16.0/12.6)
| | | | | 52 273 = 1: 462 (2.0/1.0)
| | | 205 = 1:
| | | | 205 273 = 0:
| | | | | 308 = 1: 462 (3.0/2.1)
| | | | | 308 = 0:
| | | | | 52 253 = 1: 464 (3.0/2.1)
| | | | | 52 253 = 0:
| | | | | 52 99 = 0: 401 (9.0/4.5)
| | | | | 52 99 = 1: 464 (2.0/1.0)
| | | | 205 273 = 1:
| | | | | 308 253 = 1: 462 (8.0/4.5)
| | | | | 308 253 = 0:
| | | | | 227 = 0: 464 (20.0/9.0)
| | | | | 227 = 1: 462 (5.0/3.2)
| | 56 = 1:
| | | 36 204 = 1: 462 (3.0/2.1)
| | | 36 204 = 0:
| | | 205 = 0: 464 (16.0/7.9)
| | | 205 = 1:
| | | | 273 = 0: 786 (4.0/3.1)
| | | | 273 = 1: 464 (2.0/1.0)
| 304 = 1:
| | 160 = 1: 493 (2.0/1.8)
| | 160 = 0:
| | | 253 = 1: 464 (21.0/9.1)
| | | 253 = 0:
| | | | 308 = 0: 464 (3.0/2.1)
| | | | 308 = 1: 493 (5.0/3.2)

```

Subtree [S10]

```

304 = 0:
| 173 = 0:
| | 52 177 = 0:
| | | 236 = 1: 242 (2.0/1.8)
| | | 236 = 0:
| | | | 204 = 1: 462 (5.0/4.1)
| | | | 204 = 0:
| | | | 52 308 = 0:

```

```

| | | | | 132 = 1: 462 (4.0/1.2)
| | | | | 132 = 0:
| | | | | 227 = 1: 462 (7.0/2.4)
| | | | | 227 = 0:
| | | | | 160 = 0: 465 (76.0/40.5)
| | | | | 160 = 1: 462 (3.0/1.1)
| | | | | 52 308 = 1:
| | | | | 36 = 1: 784 (2.0/1.0)
| | | | | 36 = 0:
| | | | | 205 = 1: 462 (5.0/3.2)
| | | | | 205 = 0:
| | | | | 253 = 0: 464 (5.0/3.2)
| | | | | 253 = 1: 462 (6.0/4.3)
| | 52 177 = 1:
| | | 23 = 1: 464 (3.0/2.1)
| | | 23 = 0:
| | | | 36 = 0:
| | | | 52 308 = 1: 464 (5.0/3.2)
| | | | 52 308 = 0:
| | | | | 205 = 1: 462 (4.0/3.1)
| | | | | 205 = 0:
| | | | | 52 253 = 0: 784 (25.0/15.2)
| | | | | 52 253 = 1: 462 (2.0/1.8)
| | | | 36 = 1:
| | | | 204 = 0: 401 (8.0/6.3)
| | | | 204 = 1:
| | | | | 93 = 0: 784 (4.0/2.2)
| | | | | 93 = 1: 462 (2.0/1.0)
| 173 = 1:
| | 253 = 1: 461 (2.0/1.8)
| | 253 = 0:
| | | 227 = 0: 462 (7.0/4.4)
| | | 227 = 1: 464 (3.0/2.1)
304 = 1:
| 93 = 1: 462 (2.0/1.0)
| 93 = 0:
| | 253 = 0: 464 (3.0/2.1)
| | 253 = 1: 427 (3.0/2.1)

```

Subtree [S11]

```

247 = 1: 493 (4.0/2.2)
247 = 0:
| 44 14 = 1: 558 (4.0/3.1)
| 44 14 = 0:
| | 44 = 1: 386 (4.0/2.2)
| | 44 = 0:

```

```

| | | 116 = 0:
| | | | 205 = 0: 462 (104.0/58.0)
| | | | 205 = 1:
| | | | | 273 = 1: 464 (2.0/1.0)
| | | | | 273 = 0:
| | | | | | 52 308 = 0: 460 (4.0/3.1)
| | | | | | 52 308 = 1: 413 (2.0/1.8)
| | | 116 = 1:
| | | | 36 204 = 0:
| | | | | 36 = 0: 464 (7.0/3.4)
| | | | | 36 = 1: 462 (3.0/2.1)
| | | | 36 204 = 1:
| | | | | 177 = 0: 401 (8.0/2.4)
| | | | | 177 = 1:
| | | | | | 308 = 0: 386 (2.0/1.8)
| | | | | | 308 = 1: 413 (5.0/1.2)

```

Subtree [S12]

```

247 = 1: 490 (7.0/2.4)
247 = 0:
| 205 = 0:
| | 173 = 1: 242 (2.0/1.8)
| | 173 = 0:
| | | 56 = 1: 490 (4.0/2.2)
| | | 56 = 0:
| | | | 93 = 0: 465 (16.0/9.8)
| | | | 93 = 1: 493 (6.0/3.3)
| 205 = 1:
| | 308 = 0: 246 (2.0/1.8)
| | 308 = 1: 490 (2.0/1.8)

```

Subtree [S13]

```

215 = 1: 462 (3.0/2.1)
215 = 0:
| 52 273 = 1: 280 (2.0/1.8)
| 52 273 = 0:
| | 177 93 = 0:
| | | 64 = 1: 464 (6.0/5.1)
| | | 64 = 0:
| | | | 52 177 = 0:
| | | | | 308 = 0: 464 (24.0/12.2)
| | | | | 308 = 1: 413 (21.0/13.0)
| | | | 52 177 = 1:
| | | | | 52 253 = 0: 413 (15.0/6.8)
| | | | | 52 253 = 1: 464 (3.0/1.1)

```

```

| | 177 93 = 1:
| | | 253 = 0: 464 (2.0/1.0)
| | | 253 = 1:
| | | | 14 = 0: 162 (2.0/1.8)
| | | | 14 = 1: 462 (2.0/1.0)

```

Subtree [S14]

```

11 = 1: 493 (2.0/1.8)
11 = 0:
| 14 = 0:
| | 270 = 1: 413 (4.0/3.1)
| | 270 = 0:
| | | 44 275 = 1: 427 (3.0/2.8)
| | | 44 275 = 0:
| | | | 173 = 1: 462 (4.0/2.2)
| | | | 173 = 0:
| | | | | 308 = 0:
| | | | | | 23 = 1: 464 (2.0/1.0)
| | | | | | 23 = 0:
| | | | | | | 160 = 0: 786 (47.0/20.9)
| | | | | | | 160 = 1: 464 (2.0/1.0)
| | | | | | 308 = 1:
| | | | | | | 160 = 1: 786 (2.0/1.0)
| | | | | | | 160 = 0:
| | | | | | | 144 = 1: 786 (7.0/3.4)
| | | | | | | 144 = 0:
| | | | | | | | 116 = 1: 464 (2.0/1.8)
| | | | | | | | 116 = 0:
| | | | | | | | | 177 93 = 1: 462 (4.0/2.2)
| | | | | | | | | 177 93 = 0:
| | | | | | | | | 253 = 0: 464 (15.0/8.8)
| | | | | | | | | 253 = 1: 493 (2.0/1.0)
| 14 = 1:
| | 177 = 1: 786 (12.0/6.7)
| | 177 = 0:
| | | 253 = 0: 413 (6.0/3.3)
| | | 253 = 1: 162 (2.0/1.8)

```

Subtree [S15]

```

93 = 0: 462 (7.0/3.4)
93 = 1: 464 (3.0/2.1)

```

Subtree [S16]

```

145 = 1: 401 (2.0/1.8)

```


145 = 0:
| 64 = 0: 493 (188.0/53.8)
| 64 = 1: 162 (3.0/2.8)

Subtree [S17]

64 = 0: 464 (8.0/2.4)
64 = 1: 462 (2.0/1.8)

Subtree [S18]

36 = 1: 250 (12.0/8.6)
36 = 0:
| 99 = 1: 242 (24.0/12.2)
| 99 = 0:
| | 11 = 0: 427 (83.0/51.6)
| | 11 = 1: 413 (4.0/3.1)

Subtree [S19]

14 = 0: 427 (14.0/10.6)
14 = 1: 272 (2.0/1.8)

Subtree [S20]

177 = 0: 533 (3.0/2.1)
177 = 1: 427 (2.0/1.0)

Subtree [S21]

156 = 0: 533 (303.0/161.5)
156 = 1: 493 (2.0/1.8)

Subtree [S22]

215 = 0: 413 (7.0/4.4)
215 = 1: 250 (2.0/1.8)

Subtree [S23]

99 = 1: 789 (3.0/2.1)
99 = 0:
| 52 = 1: 464 (4.0/3.1)
| 52 = 0:
| | 308 = 1: 274 (2.0/1.8)
| | 308 = 0:
| | | 205 84 = 0:

```

| | | | 64 = 1: 533 (5.0/4.1)
| | | | 64 = 0:
| | | | | 36 204 = 0: 571 (7.0/5.3)
| | | | | 36 204 = 1: 250 (9.0/7.3)
| | | 205 84 = 1:
| | | | 207 = 0: 401 (9.0/4.5)
| | | | 207 = 1: 460 (2.0/1.8)

```

Subtree [S24]

```

64 = 0: 789 (4.0/2.2)
64 = 1: 386 (3.0/2.1)

```

Subtree [S25]

```

99 = 0: 789 (83.0/61.3)
99 = 1:
| 56 = 1: 789 (8.0/5.4)
| 56 = 0:
| | 93 = 0: 532 (15.0/10.7)
| | 93 = 1: 009 (4.0/1.2)

```

Subtree [S26]

```

177 = 0: 533 (4.0/3.1)
177 = 1: 789 (7.0/2.4)

```

Subtree [S27]

```

11 = 0: 780 (130.0/61.4)
11 = 1: 250 (4.0/2.2)

```

Subtree [S28]

```

11 = 0: 401 (25.0/15.2)
11 = 1: 780 (8.0/5.4)

```

Subtree [S29]

```

177 = 1: 564 (7.0/6.1)
177 = 0:
| 65 = 1: 401 (2.0/1.8)
| 65 = 0:
| | 36 = 0: 558 (93.0/28.6)
| | 36 = 1: 460 (3.0/2.8)

```

Subtree [S30]

177 93 = 0: 789 (8.0/6.3)
177 93 = 1: 558 (5.0/3.2)

Subtree [S31]

36 = 1: 401 (910.0/572.6)
36 = 0:
| 275 = 1: 246 (3.0/2.8)
| 275 = 0:
| | 160 = 1: 462 (8.0/4.5)
| | 160 = 0:
| | | 204 = 0: 401 (75.0/54.2)
| | | 204 = 1: 571 (8.0/6.3)

Subtree [S32]

215 = 0: 250 (19.0/8.0)
215 = 1: 401 (3.0/1.1)

Subtree [S33]

270 = 0: 401 (26.0/21.8)
270 = 1: 464 (2.0/1.8)

Subtree [S34]

36 = 0: 246 (81.0/63.1)
36 = 1:
| 204 = 1: 250 (3.0/2.8)
| 204 = 0:
| | 308 = 0: 401 (13.0/8.7)
| | 308 = 1: 250 (2.0/1.0)

Subtree [S35]

64 = 0: 009 (18.0/14.6)
64 = 1: 462 (3.0/2.8)

Subtree [S36]

44 = 1: 493 (5.0/4.1)
44 = 0:
| 215 = 0: 465 (854.0/560.1)
| 215 = 1: 464 (3.0/1.1)

Subtree [S37]

304 = 0: 460 (3.0/2.8)
304 = 1: 493 (4.0/3.1)

Subtree [S38]

93 = 0: 464 (28.0/21.1)
93 = 1: 465 (9.0/5.5)

Subtree [S39]

273 = 1: 462 (6.0/4.3)
273 = 0:
| 93 = 0: 464 (141.0/90.4)
| 93 = 1: 462 (8.0/5.4)

Tree saved

Evaluation on training data (9893 items):

Before Pruning		After Pruning		Estimate	<<
Size	Errors	Size	Errors		
1843	4697(47.5%)	1155	4888(49.4%)	(57.6%)	<<