

<b>MC4 Errors found by STUCCO</b>			
		Model	Effect
Rule	Population Group	Accuracy	Size
1	age<=25	13.1%	421.9
2	age=(35,45]	-5.6%	-219.8
3	age=(45,55]	-6.7%	-183.6
4	age>55	-3.1%	-66.5
5	capitalgain=(3500,7500)	-13.7%	-59.7
6	capitalgain>\$10000	14.1%	51.2
7	capitalloss=\$0	0.3%	44.2
8	education=11th	11.1%	70.6
9	education=Bachelors	-5.0%	-133.9
10	education=HS-grad	1.4%	76.5
11	education=Masters	-7.6%	-71.3
12	hoursperweek<20	8.4%	127.4
13	hoursperweek=(20,35]	6.8%	130.3
14	hoursperweek=(45,60]	-7.5%	-224.5
15	hoursperweek>60	-8.0%	-45.1
16	marital-status=Divorced	8.0%	176.2
17	marital-status=Married-civ-spouse	-12.5%	-924.9
18	marital-status=Never-married	11.8%	643.4
19	marital-status=Separated	10.2%	51.6
20	marital-status=Widowed	9.1%	47.6
21	occupation=Adm-clerical	4.6%	84.3
22	occupation=Craft-repair	-4.7%	-95.6
23	occupation=Exec-managerial	-7.3%	-147.5
24	occupation=Handlers-cleaners	7.8%	54.5
25	occupation=Machine-op-inspct	4.5%	45.7
26	occupation=Other-service	11.2%	182.0
27	occupation=Prof-specialty	-5.4%	-110.7
28	occupation=Sales	-2.4%	-43.7
29	race=Black	6.6%	102.8
30	race=White	-0.7%	-97.2
31	relationship=Husband	-12.8%	-837.4
32	relationship=Not-in-family	7.9%	340.0
33	relationship=Other-relative	12.5%	65.6
34	relationship=Own-child	14.0%	351.2
35	relationship=Unmarried	10.6%	177.7
36	relationship=Wife	-12.7%	-97.2
37	salary<\$50K	8.1%	1012.5
38	salary>\$50K	-26.3%	-1012.5
39	sex=Female	7.8%	423.4
40	sex=Male	-3.9%	-423.4
41	workclass=Local-gov	-4.3%	-44.8
42	workclass=Private	1.1%	124.7
43	workclass=Self-emp-not-inc	-6.0%	-79.6
44	age=(25,35] AND salary>\$50K	-36.7%	-289.5

45	age=(35,45] AND marital-status=Married-civ-spouse	-14.5%	-331.4
46	age=(35,45] AND relationship=Husband	-14.6%	-298.2
47	age=(35,45] AND salary>\$50K	-20.3%	-275.1
48	age=(45,55] AND marital-status=Married-civ-spouse	-14.5%	-244.1
49	age=(45,55] AND relationship=Husband	-14.7%	-221.5
50	age=(45,55] AND salary>\$50K	-21.1%	-221.9
51	age>55 AND marital-status=Married-civ-spouse	-9.9%	-129.3
52	age>55 AND relationship=Husband	-10.2%	-123.3
53	capitalgain=(\$3500,\$7500) AND salary<\$50K	-35.8%	-71.0
54	education=Bachelors AND marital-status=Married-civ-spouse	-14.9%	-203.5
55	education=Bachelors AND relationship=Husband	-14.3%	-172.5
56	education=Bachelors AND salary<\$50K	-3.9%	-61.6
57	education=Bachelors AND salary>\$50K	-6.6%	-72.3
58	education=HS-grad AND salary<\$50K	13.6%	603.9
59	education=HS-grad AND salary>\$50K	-63.7%	-527.4
60	education=Masters AND marital-status=Married-civ-spouse	-9.4%	-49.5
61	education=Masters AND relationship=Husband	-11.1%	-50.3
62	education=Masters AND salary<\$50K	-14.6%	-63.2
63	education=Some-college AND marital-status=Married-civ-spouse	-18.8%	-256.5
64	education=Some-college AND relationship=Husband	-19.2%	-227.4
65	hoursperweek=(20,35] AND marital-status=Married-civ-spouse	-10.7%	-58.2
66	hoursperweek=(45,60] AND marital-status=Married-civ-spouse	-13.7%	-253.8
67	hoursperweek=(45,60] AND relationship=Husband	-13.9%	-243.5
68	hoursperweek=(45,60] AND salary>\$50K	-20.6%	-263.4
69	hoursperweek=(45,60] AND sex=Male	-8.7%	-216.1
70	marital-status=Divorced AND relationship=Not-in-family	6.8%	83.7
71	marital-status=Divorced AND salary<\$50K	15.2%	300.7
72	marital-status=Divorced AND salary>\$50K	-59.8%	-124.4
73	marital-status=Married-civ-spouse AND sex=Male	-12.7%	-835.7
74	marital-status=Never-married AND salary<\$50K	15.2%	786.7
75	marital-status=Never-married AND salary>\$50K	-59.2%	-143.3
76	occupation=Adm-clerical AND marital-status=Married-civ-spouse	-17.4%	-88.8
77	occupation=Adm-clerical AND salary>\$50K	-36.2%	-94.4
78	occupation=Craft-repair AND marital-status=Married-civ-spouse	-14.6%	-182.8
79	occupation=Craft-repair AND relationship=Husband	-14.9%	-181.9
80	occupation=Craft-repair AND salary<\$50K	8.9%	138.5
81	occupation=Craft-repair AND salary>\$50K	-51.6%	-234.1
82	occupation=Craft-repair AND sex=Male	-5.4%	-103.9
83	occupation=Exec-managerial AND hoursperweek=(45,60]	-9.3%	-62.4
84	occupation=Exec-managerial AND marital-status=Married-civ-spouse	-14.2%	-163.6
85	occupation=Exec-managerial AND relationship=Husband	-14.7%	-153.6
86	occupation=Exec-managerial AND salary>\$50K	-13.1%	-123.4

87	occupation=Prof-specialty AND marital-status=Married-civ-spouse	-11.5%	-121.8
88	occupation=Prof-specialty AND relationship=Husband	-10.7%	-95.1
89	occupation=Prof-specialty AND salary>\$50K	-7.4%	-68.7
90	occupation=Transport-moving AND salary>\$50K	-66.2%	-106.6
91	relationship=Husband AND salary<\$50K	-6.0%	-214.6
92	relationship=Not-in-family AND marital-status=Never-married	8.8%	212.3
93	relationship=Not-in-family AND salary<\$50K	15.1%	583.3
94	relationship=Not-in-family AND salary>\$50K	-57.9%	-243.3
95	relationship=Not-in-family AND sex=Female	8.9%	176.7
96	relationship=Unmarried AND salary>\$50K	-69.4%	-63.2
97	relationship=Wife AND marital-status=Married-civ-spouse	-12.4%	-92.9
98	relationship=Wife AND salary>\$50K	-15.9%	-55.2
99	salary<\$50K AND marital-status=Married-civ-spouse	-5.8%	-240.3
100	salary<\$50K AND sex=Male	5.1%	390.6
101	salary>\$50K AND capitalgain=\$0	-34.9%	-1059.0
102	salary>\$50K AND marital-status=Married-civ-spouse	-20.8%	-684.6
103	salary>\$50K AND relationship=Husband	-21.3%	-622.8
104	salary>\$50K AND sex=Male	-25.0%	-814.0
105	salary>\$50K AND workclass=Private	-28.2%	-684.3
106	sex=Female AND marital-status=Married-civ-spouse	-10.8%	-89.1
107	sex=Female AND salary>\$50K	-33.6%	-198.5
108	workclass=Self-emp-inc AND marital-status=Married-civ-spouse	-9.9%	-42.2
109	workclass=Self-emp-not-inc AND marital-status=Married-civ-spouse	-12.3%	-107.4
110	workclass=Self-emp-not-inc AND relationship=Husband	-13.0%	-104.5
111	age=(25,35] AND salary<\$50K AND capitalgain=\$0	10.4%	341.8
112	age=(25,35] AND salary<\$50K AND sex=Male	8.3%	183.7
113	age=(35,45] AND salary<\$50K AND capitalgain=\$0	2.8%	70.7
114	age=(35,45] AND salary<\$50K AND marital-status=Married-civ-spouse	-14.9%	-166.4
115	age=(35,45] AND salary<\$50K AND relationship=Husband	-14.0%	-140.4
116	age>55 AND salary>\$50K AND marital-status=Married-civ-spouse	-27.7%	-142.7
117	education=HS-grad AND marital-status=Married-civ-spouse AND workclass=Private	-12.4%	-206.7
118	education=HS-grad AND relationship=Husband AND workclass=Private	-13.4%	-194.8
119	education=Masters AND salary>\$50K AND marital-status=Married-civ-spouse	14.9%	58.8
120	education=Masters AND salary>\$50K AND relationship=Husband	14.9%	49.7
121	education=Some-college AND salary>\$50K AND capitalloss=\$0	-33.6%	-205.3
122	hoursperweek=(35,45] AND salary<\$50K AND capitalgain=\$0	9.2%	634.1

123	hoursperweek=(45,60] AND salary<\$50K AND marital-status=Married-civ-spouse	-13.5%	-104.7
124	marital-status=Married-civ-spouse AND capitalgain=\$0 AND capitalloss=\$0	-14.1%	-860.7
125	occupation=Exec-managerial AND salary<\$50K AND marital-status=Married-civ-spouse	-35.5%	-131.7
126	occupation=Exec-managerial AND salary<\$50K AND relationship=Husband	-38.0%	-124.4
127	occupation=Exec-managerial AND salary<\$50K AND sex=Male	-12.4%	-78.1
128	occupation=Prof-specialty AND relationship=Husband AND salary<\$50K	-51.2%	-134.3
129	occupation=Prof-specialty AND salary<\$50K AND marital-status=Married-civ-spouse	-52.5%	-162.1
130	occupation=Prof-specialty AND salary<\$50K AND sex=Male	-15.2%	-87.5
131	relationship=Husband AND capitalgain=\$0 AND capitalloss=\$0	-14.7%	-786.0
132	relationship=Husband AND workclass=Private AND capitalgain=\$0	-13.6%	-505.0
133	salary<\$50K AND capitalgain=\$0 AND capitalloss=\$0	9.1%	1043.8
134	salary<\$50K AND workclass=Private AND capitalgain=\$0	9.8%	827.4
135	salary>\$50K AND capitalgain=\$0 AND capitalloss=\$0	-38.2%	-1016.3
136	salary>\$50K AND marital-status=Married-civ-spouse AND capitalloss=\$0	-23.1%	-686.0
137	sex=Female AND salary<\$50K AND capitalgain=\$0	13.1%	610.8
138	workclass=Self-emp-inc AND salary>\$50K AND capitalgain=\$0	-21.7%	-48.9
139	hoursperweek=(45,60] AND education=HS-grad AND marital-status=Married-civ-spouse AND capitalgain=\$0	-22.7%	-104.2
140	hoursperweek=(45,60] AND education=HS-grad AND relationship=Husband AND capitalgain=\$0	-23.2%	-102.8
141	salary<\$50K AND marital-status=Married-civ-spouse AND race=White AND capitalgain=\$0	-4.5%	-156.1
142	age=(35,45] AND salary<\$50K AND sex=Male AND race=White AND native-country=United-States	-4.2%	-55.9
143	education=Bachelors AND salary<\$50K AND sex=Male AND capitalloss=\$0 AND capitalgain=\$0	-14.2%	-115.5