

# Original matrix used for allpairs.exe

Configuration elements as prescribed in the ZeroKnowledge requirements doc sent by Robert Sabourin on March 1, 2004

OS	Browser	email	webmail	Desktop Application	share	chat	online action	connection	security
XP Home	IE5 sp2	Outlook 2003	hotmail	MS Money	downloading	Yahoo	pokerstars	modem	ZoneAlarm
W98 SE	IE 6	OE 6	yahoo	MS Office	server	ICQ	TestTrackPro	DSL	Norton AV
W2K Pro	NS Nav 6	NS 7	AOL	MS Works	uploading	MSN	windows update	cable modem	Spamfilter
XP Pro	MSN8	Eudora 5.21	OWA	MS Flight Simulator 2004					adware removal
XP SP2	AOL9			Adobe Acrobat					
Millenium				Kazaa					
				RealOne Player					
				Windows media player					

Add / Del	Add / Del	Add / Del	Add / Del	Add / Del	Add / Del
XP Pro SP1	NS Cm 4.71 MSN6 AOL8 NS Cm 4.71 NS7 IE5 sp3 MSN9 IE 5.5	Outlook 97 Eudora 6 OE 5	MUSICMATCH Jukebox Shockwave QuickBooks Pro Quicken Adobe Photoshop Quicktime	NetMeeting AOL IM	adware removal

# Raw combinatory data from allpairs.exe

Below is a table of configurations derived from a test tool called allpairs.exe, which takes data from a matrix (as in the "Variables" tab in this spreadsheet) and creates combinatory pairings for them such that a reasonable subset of testable configurations can be achieved. The tool is written in Perl and available from [www.satisfice.com](http://www.satisfice.com)

## TEST CASES

case	OS	Browser	email	webmail	App	share	chat	online action	connection	security	pairings
1	XP Home	MSN6	Outlook 2003	hotmail	Office	downloading	yahoo	pokerstars	modem	zonealarm	45
2	W98 SE	MSN6	OE 6	yahoo	Goldmine	server	icq	TestTrackPro	DSL	norton	45
3	W2K Pro	MSN6	NS 7	AOL	FS2004	uploading	MSN	windows update	cable modem	Spamfilter	45
4	XP Home	IE5 sp2	NS 7	OWA	Goldmine	downloading	yahoo	TestTrackPro	cable modem	adware removal	40
5	W98 SE	IE5 sp2	Eudora 5.21	AOL	Office	server	icq	windows update	modem	zonealarm	38
6	W2K Pro	IE5 sp2	Outlook 2003	yahoo	realone	uploading	MSN	pokerstars	DSL	norton	38
7	XP Home	NS Nav 6	OE 6	hotmail	FS2004	downloading	icq	windows update	cable modem	norton	33
8	W98 SE	NS Nav 6	NS 7	hotmail	realone	server	yahoo	pokerstars	DSL	Spamfilter	33
9	W2K Pro	NS Nav 6	OE 6	OWA	Office	uploading	MSN	TestTrackPro	modem	adware removal	36
10	XP Pro	MSN8	Outlook 2003	AOL	Goldmine	uploading	icq	pokerstars	cable modem	Spamfilter	31
11	XP SP2	MSN8	Eudora 5.21	yahoo	FS2004	downloading	yahoo	windows update	DSL	adware removal	36
12	Millenium	MSN8	Eudora 5.21	OWA	realone	server	MSN	TestTrackPro	cable modem	zonealarm	31
13	XP Pro	AOL9	OE 6	AOL	realone	downloading	yahoo	windows update	modem	adware removal	27
14	XP SP2	AOL9	Outlook 2003	OWA	winmedia	server	icq	TestTrackPro	modem	Spamfilter	30
15	Millenium	AOL9	NS 7	hotmail	kazaa	uploading	MSN	pokerstars	modem	norton	27
16	XP Pro	NS Cm 4.7	Eudora 5.21	hotmail	winmedia	server	MSN	pokerstars	DSL	adware removal	26
17	XP SP2	NS Cm 4.7	OE 6	AOL	kazaa	uploading	yahoo	TestTrackPro	DSL	zonealarm	25
18	Millenium	NS Cm 4.7	Outlook 2003	yahoo	Goldmine	downloading	MSN	windows update	modem	Spamfilter	22
19	XP Home	IE 6	NS 7	yahoo	winmedia	uploading	icq	windows update	cable modem	zonealarm	23
20	W98 SE	IE 6	Outlook 2003	OWA	kazaa	downloading	icq	pokerstars	cable modem	adware removal	22
21	XP SP2	IE 6	OE 6	OWA	FS2004	server	yahoo	pokerstars	modem	norton	16
22	XP Home	IE 6	Eudora 5.21	AOL	kazaa	server	MSN	TestTrackPro	DSL	Spamfilter	17
23	W2K Pro	NS Cm 4.7	Eudora 5.21	OWA	winmedia	downloading	yahoo	windows update	cable modem	norton	13
24	W2K Pro	MSN8	NS 7	hotmail	Office	server	icq	TestTrackPro	DSL	norton	12
25	Millenium	AOL9	Eudora 5.21	yahoo	Office	uploading	yahoo	~pokerstars	cable modem	zonealarm	10
26	Millenium	MSN6	OE 6	OWA	FS2004	~uploading	icq	TestTrackPro	DSL	adware removal	10
27	XP Pro	IE5 sp2	OE 6	hotmail	FS2004	~downloading	~MSN	TestTrackPro	~cable modem	zonealarm	8
28	XP SP2	NS Nav 6	Eudora 5.21	hotmail	Goldmine	~uploading	MSN	~windows update	cable modem	zonealarm	11
29	XP Pro	NS Nav 6	Outlook 2003	yahoo	kazaa	~server	~yahoo	windows update	~DSL	norton	9
30	W98 SE	MSN8	OE 6	AOL	winmedia	uploading	MSN	~pokerstars	modem	Spamfilter	10
31	XP Pro	NS Cm 4.7	NS 7	OWA	Office	~downloading	icq	~windows update	~DSL	Spamfilter	7
32	XP SP2	MSN6	NS 7	AOL	realone	~downloading	icq	~pokerstars	~cable modem	norton	6
33	W2K Pro	MSN6	Eudora 5.21	~yahoo	kazaa	~server	~icq	~windows update	~modem	zonealarm	4
34	Millenium	IE5 sp2	~Outlook 2003	AOL	winmedia	~downloading	~yahoo	~TestTrackPro	~DSL	Spamfilter	5
35	XP Home	NS Nav 6	~Outlook 2003	AOL	realone	~server	~icq	~TestTrackPro	~modem	~adware removal	2
36	W98 SE	AOL9	Outlook 2003	~yahoo	FS2004	~downloading	~MSN	~TestTrackPro	DSL	~zonealarm	5
37	W2K Pro	IE 6	~NS 7	hotmail	Goldmine	~downloading	~yahoo	~pokerstars	~modem	~adware removal	4

38	XP SP2	IE5 sp2	~NS 7	~yahoo	Office	~server	~MSN	~windows update	~cable modem	~adware removal	2
39	XP Home	MSN8	~OE 6	~OWA	kazaa	~downloading	~yahoo	~windows update	~cable modem	~Spamfilter	2
40	XP Home	AOL9	~Eudora 5.21	~OWA	Goldmine	~server	~MSN	~pokerstars	~DSL	~norton	2
41	W98 SE	NS Cm 4.7	~NS 7	~hotmail	FS2004	~uploading	~yahoo	~pokerstars	~modem	~zonealarm	2
42	XP Home	NS Cm 4.7	~OE 6	~yahoo	realone	~uploading	~icq	~TestTrackPro	~cable modem	~Spamfilter	2
43	XP Pro	IE 6	~Eudora 5.21	~hotmail	realone	~uploading	~MSN	~TestTrackPro	~modem	~Spamfilter	2
44	Millenium	NS Nav 6	~NS 7	~AOL	winmedia	~server	~icq	~pokerstars	~cable modem	~norton	2
45	Millenium	IE 6	~Outlook 2003	~hotmail	Office	~uploading	~yahoo	~windows update	~DSL	~norton	2
46	XP Pro	MSN6	~OE 6	~OWA	winmedia	~uploading	~yahoo	~pokerstars	~DSL	~zonealarm	2
47	~W98 SE	IE5 sp2	~Eudora 5.21	~hotmail	kazaa	~uploading	~icq	~windows update	~cable modem	~adware removal	1
48	W2K Pro	AOL9	~Outlook 2003	~AOL	~FS2004	~server	~icq	~windows update	~cable modem	~Spamfilter	1

## Final configuration matrix used

3/26/2004 7:00 PM

	OS	Browser	email	webmail	App	share	chat	online action	connection	security	locale	machine
1	XP Home	MSN8	Outlook 2003	Hotmail	Office	downloading	Yahoo	pokerstars	modem	ZoneAlarm	English	QL0011
2	XP Pro sp1	IE 6	Eudora 5.21	AOL9	WinMedia	downloading	Yahoo	windows update	DSL	Norton AV	English	QL0014
3	Windows 2000	MSN8	Outlook 2003	Yahoo	FS2004	downloading	Yahoo	TestTrackPro	modem	Norton AV	English	QL0034
4	Millenium	IE5 sp2	NS 7	Hotmail	Adobe Photoshop	downloading	ICQ	pokerstars	modem	Norton AV	English	QL0029
5	W98 SE	MSN8	OE 6	Yahoo	MS Money	server	ICQ	TestTrackPro	DSL	Norton AV	English	QL0018
6	XP Pro	MSN8	OE 6	Hotmail	RealOne	uploading	MSN	pokerstars	DSL	adware removal	English	QL0037
7	XP Home	IE 6	NS 7	AOL9	MS Money	uploading	MSN	windows update	cable modem	Norton AV	Canada	QL0018
8	XP Pro sp1	MSN8	Eudora 5.21	Yahoo	MS Works	uploading	ICQ	pokerstars	modem	<none>	Canada	QL0018
9	Windows 2000	AOL9	NS 7	OWA	WinMedia	uploading	ICQ	pokerstars	modem	<none>	Canada	QL0055
10	Millenium	IE 6	OE 6	Yahoo	Shockwave	server	Yahoo	windows update	modem	<none>	Canada	QL0037
11	XP Pro	AOL9	Outlook 2003	AOL9	MM Jukebox	server	Yahoo	windows update	DSL	<none>	Canada	QL0011
12	XP Home	NS Nav 6	OE 6	OWA	FS2004	downloading	ICQ	windows update	DSL	Norton AV	English	QL0055
13	Windows 2000	NS Cm 4.74	Eudora 5.21	Hotmail	Kazaa	server	MSN	TestTrackPro	DSL	<none>	English	QL0029
14	Millenium	NS 7	NS 7	Hotmail	MS Money	uploading	Yahoo	TestTrackPro	DSL	ZoneAlarm	English	QL0037
15	W98 SE	IE5 sp2	Eudora 5.21	OWA	Office	uploading	Yahoo	TestTrackPro	DSL	<none>	Canada	QL0008
16	XP Home	MSN9	Eudora 5.21	AOL9	RealOne	server	ICQ	TestTrackPro	DSL	<none>	Canada	QL0029
17	Windows 2000	IE 6	OE 6	Yahoo	Office	uploading	ICQ	windows update	DSL	ZoneAlarm	Canada	QL0057
18	Millenium	MSN8	Outlook 97	AOL9	WinMedia	server	MSN	windows update	DSL	<none>	Canada	QL0029
19	XP Pro	NS Cm 4.74	NS 7	Yahoo	Adobe Acrobat	downloading	NetMeeting	TestTrackPro	modem	<none>	English	QL0014
20	XP Pro sp1	IE 6	Outlook 2003	OWA	Office	server	MSN	pokerstars	DSL	<none>	English	QL0011
21	XP Home	AOL9	OE 6	Yahoo	WinMedia	~server	AOL IM	~pokerstars	DSL	<none>	Canada	QL0034
22	Windows 2000	NS 7	NS 7	Yahoo	RealOne	~downloading	AOL IM	~pokerstars	cable modem	<none>	Canada	QL0014
23	Millenium	NS Cm 4.74	OE 5	AOL9	Office	~downloading	Yahoo	windows update	DSL	<none>	English	QL0034
24	XP Pro	IE 6	NS 7	OWA	FS2004	server	MSN	TestTrackPro	DSL	<none>	English	QL0037
25	XP Pro sp1	NS Cm 4.74	Outlook 2003	Hotmail	QuickBooks	uploading	AOL IM	pokerstars	cable modem	ZoneAlarm	English	QL0055
26	W98 SE	NS Nav 6	Outlook 97	AOL9	RealOne	server	MSN	pokerstars	modem	<none>	English	QL0008
27	XP Home	NS Cm 4.74	Eudora 6	AOL9	Adobe Photoshop	~server	AOL IM	~windows update	DSL	<none>	English	QL0057
28	Windows 2000	IE5 sp3	Outlook 2003	AOL9	QuickTime	~uploading	AOL IM	~TestTrackPro	DSL	<none>	English	QL0057
29	Millenium	MSN9	Eudora 6	OWA	MM Jukebox	~downloading	NetMeeting	~pokerstars	cable modem	<none>	English	QL0014
30	XP Home	IE 6	Outlook 2003	AOL7	QuickBooks	~downloading	AOL IM	~TestTrackPro	modem	<none>	English	QL0034
31	Windows 2000	MSN9	Eudora 6	AOL8	Adobe Acrobat	~downloading	AOL IM	~pokerstars	DSL	<none>	English	QL0057
32	Millenium	AOL9	Outlook 97	AOL9	FS2004	~server	AOL IM	~TestTrackPro	DSL	<none>	English	QL0018
33	XP Pro sp2 beta	AOL8	NS 7	Yahoo	Kazaa	uploading	AOL IM	windows update	modem	<none>	English	QL0037
34	W98 SE	AOL9	OE 5	Hotmail	MS Works	downloading	NetMeeting	windows update	cable modem	Spamfilter	English	QL0008
35	XP Pro sp2 beta	IE 6	Eudora 5.21	Yahoo	Goldmine	downloading	ICQ	~pokerstars	cable modem	Norton AV	English	QL0014
36	Millenium	IE 5.5	Eudora 5.21	Hotmail	Quicken	~uploading	NetMeeting	~windows update	DSL	<none>	English	QL0011
37	Windows 2000	IE 5.5	Eudora 5.21	AOL9	Quicken	~server	AOL IM	~windows update	DSL	<none>	English	QL0034
38	XP Home	AOL9	OE 6	OWA	Kazaa	~uploading	AOL IM	~TestTrackPro	DSL	<none>	English	QL0055

\* Drivers are installed on the machine during testing

# Matrix Breakdown

## Operating Systems

Millenium	8	21%
Windows 2000	8	21%
XP Home	8	21%
XP Pro	4	11%
XP Pro sp1	4	11%
W98SE	4	11%
XP Pro sp2 beta	2	5%
		<b>100%</b>

## Modems

DSL	22	58%
Dial-up Modem	10	26%
Cable Modem	6	16%
		<b>100%</b>

## Browsers

IE 6	8	21%
MSN8	6	16%
AOL9	6	16%
NS Cm 4.74	5	13%
MSN9	3	8%
NS Nav 6	2	5%
IE5 sp2	2	5%
IE 5.5	2	5%
NS 7	2	5%
AOL8	1	3%
IE5 sp3	1	3%
		<b>100%</b>

## Email

NS 7	8	21%
Eudora 5.21	8	21%
OE 6	7	18%
Outlook 2003	7	18%
Eudora 6	3	8%
Outlook 97	3	8%
OE 5	2	5%

## Web Mail

AOL9	11	29%
Yahoo	10	26%
Hotmail	8	21%
OWA	7	18%
AOL7	1	3%
AOL8	1	3%
		<b>100%</b>

## Application

Office	5	13%
FS2004	4	11%
Windows Media	4	11%
RealOne	4	11%
Quicken	2	5%
Kazaa	3	8%

MS Money	3	8%
MS Works	2	5%
Adobe Photoshop	2	5%
MM Jukebox	2	5%
Adobe Acrobat	2	5%
QuickBooks	2	5%
QuickTime	1	3%
ShockWave	1	3%
Goldmine	1	3%

**100%**

#### Share

optional (~)	12	32%
uploading	9	24%
server	9	24%
downloading	8	21%

**100%**

#### Chat

Yahoo	8	21%
AOL IM	11	29%
ICQ	8	21%
MSN	7	18%
NetMeeting	4	11%

**100%**

#### Online Action

optional (~)	12	32%
Windows Update	10	26%
TestTrackPro	8	21%
PokerStars	8	21%

**100%**

#### Security

Norton	7	18%
ZoneAlarm	4	11%
Adware removal	1	3%
Spamfilter	1	3%

**34%**

#### Locale

English	27	71%
French Canadian	11	29%

**100%**

Sorted by config #

	#	Tested?
1	QL0011	
2	QL0014	
3	QL0034	
4	QL0029	
5	QL0018	
6	QL0037	
7	QL0018	
8	QL0018	
9	QL0055	
10	QL0037	
11	QL0011	
12	QL0055	
13	QL0029	
14	QL0037	
15	QL0008	
16	QL0029	
17	QL0057	
18	QL0029	
19	QL0014	
20	QL0011	
21	QL0034	
22	QL0014	
23	QL0034	
24	QL0037	
25	QL0055	
26	QL0008	
27	QL0057	
28	QL0057	
29	QL0014	
30	QL0034	
31	QL0057	
32	QL0018	
33	QL0037	
34	QL0008	
35	QL0014	
36	QL0011	
37	QL0034	
38	QL0055	

Sorted by machine #

	#	Tested?
15	QL0008	
26	QL0008	
34	QL0008	
1	QL0011	
11	QL0011	
20	QL0011	
36	QL0011	
2	QL0014	
19	QL0014	
22	QL0014	
29	QL0014	
35	QL0014	
5	QL0018	
7	QL0018	
8	QL0018	
32	QL0018	
4	QL0029	
13	QL0029	
16	QL0029	
18	QL0029	
3	QL0034	
21	QL0034	
23	QL0034	
30	QL0034	
37	QL0034	
6	QL0037	
10	QL0037	
14	QL0037	
24	QL0037	
33	QL0037	
9	QL0055	
12	QL0055	
25	QL0055	
38	QL0055	
17	QL0057	
27	QL0057	
28	QL0057	
31	QL0057	