



# Core War

- One of the oldest programming games, dating back to 1984.
- Programs written in assembly-like Redcode language battle in virtual memory.
- Very small instruction set: 16 operations, 7 modifiers, 8 addressation modes.
- See <https://www.corewar.info> and <https://corewar.co.uk/> for more info.

# Nash Equilibrium

- Informally, NE is the best possible combination of strategies rational players could adopt, with no player being able to benefit by deviating from it.
- In Core War, we're interested in a symmetric equilibrium of a symmetric two-player game.
- Strategy profile (vector of probabilities)  $p$  is a NE of a score matrix  $S$  if  $pSp \geq qSp$  for any distribution  $q$ .
- Informally, there is no better counter to NE than NE itself.
- Every finite symmetric game has a symmetric NE.
- Potentially non-unique, uniqueness is hard to verify. Very likely unique for actual Core War matrices.
- Zero-Diagonal Nash Equilibrium (ZDNE): NE of  $S$  with diagonal elements set to 0. Penalizes high-probability warriors, wider than the regular NE.

# Challenge Rules – Qualification Stage

The entries are scored against the Nash equilibrium (NE) of the Koenigstuhl nano hill snapshot from 2025.05.01:

Prob	Name	Author
15.53	14_12.red	yabevolver
10.13	Combat Arithmetic	inversed
8.60	Nonlocality 2	inversed
8.25	Transfer Function	Terry Newton
6.83	032_42.red	yabevolver
6.74	b69e6908-a5be0bba-ab4445f7.rc	bvowk
6.20	Unholy Fire	John Metcalf
6.14	Quantum Foam	inversed
4.99	[RS] Nextratulated Sturvinator 2	inversed
4.77	128_48.red	yabevolver
4.63	Diffraction Limit S5	inversed
4.31	Cold Plasma	inversed
3.72	8c09fc1a-4799259f-1747246f	bvowk
3.00	Pacler Deux	Roy van Rijn
2.66	Flamewraith	John Metcalf
2.08	[RS] Existephall Apris	inversed
1.16	Nonlocality	inversed
0.25	145_13.red	yabevolver

Entries scoring above 146 points advance to the next stage.

# Challenge Rules – Final Stage

- Entries advancing from the qualification stage are added to the Koenigstuhl nano hill snapshot from 2025.05.01.
- The new NE is calculated multiple times starting with random initialization. In case of multiple NEs, the most frequent one is chosen.
- Players are ranked by total NE probability of qualified entries.
- \$100 first place prize, \$30 second place prize.

# NDusN – 21\_5

NE 136.4, ZDNE 136.6

<code>;redcode-nano</code>	vs. 21_5	Score	Given
<code>;name 21_5</code>	-----	-----	-----
<code>;author NDusN</code>	Combat Arithmetic	184.5	110.6
<code>;strategy Evolved by MEVO, good against</code>	Diffraction Limit S5	176.8	117.6
<code>  nanoht1 and nanobm07</code>	Nonlocality	165.5	119.0
<code>;assert CORESIZE == 80</code>	[RS] Nextratulated Sturvi	164.8	124.6
<code>mov.i }-16,\$22</code>	Cold Plasma	159.2	114.8
<code>spl.i #36,&gt;12</code>	Nonlocality 2	156.3	120.4
<code>mov.i &lt;-11,{-2</code>	8c09fc1a-4799259f-1747246	156.3	139.4
<code>mov.i {-3,{-2</code>	[RS] Existephall Apris	154.2	122.5
<code>djn.i \$-2,\$-3</code>	145_13.red	152.8	142.3
<code>end</code>	Unholy Fire	148.6	140.1
	14_12.red	145.8	147.9
	Quantum Foam	145.1	151.4
	032_42.red	143.7	147.9
	128_48.red	142.3	148.6
	b69e6908-a5be0bba-ab4445f	140.1	146.5
	Transfer Function	139.4	154.2
	Pacler Deux	139.4	147.9
	Flamewraith	138.0	135.9



# Drugganator – Evolvernano151282

NE 105.9, ZDNE 98.1

	vs. Evolvernano151282	Score	Given
	-----	-----	-----
;name Evolvernano151282	[RS] Nextratulated Sturvi	203.5	83.1
;author Drugganator	Transfer Function	197.9	92.3
;strategy evolved	8c09fc1a-4799259f-1747246	196.5	90.8
;strategy Mother 137286	Cold Plasma	191.5	79.6
;strategy Father 134262	145_13.red	188.0	99.3
;strategy Generation 66	Combat Arithmetic	185.2	98.6
;redcode-nano	14_12.red	183.1	102.8
;assert 1	128_48.red	183.1	109.2
	Quantum Foam	183.1	102.8
ORG 1	[RS] Existephall Apris	181.0	77.5
SPL.B #38, <-18	Unholy Fire	172.5	98.6
SPL #-46, <9	Nonlocality	171.8	95.8
MOV.I >54, {46	032_42.red	161.3	125.4
DJN {2, }23	b69e6908-a5be0bba-ab4445f	159.9	119.7
DAT.AB <32, }-65	Pacler Deux	156.3	114.1
END	Diffraction Limit S5	154.2	131.0
	Flamewraith	145.8	128.9
	Nonlocality 2	140.8	130.3

# Drugganator – Evolvernano151282 – Execution Trace

0 #@###					spl.b #	34,	<	9	
1 #!@##	-				mov.i >	54,	{	46	
2 #@.##	-			X-	spl.b #	34,	<	9	
3 #!.@#	-			X-	djn.b {	2,	}	23	
4 #!.@.#-	-	-		X-	mov.i >	54,	{	46	
5 #@..#-	-			XX-	spl.b #	34,	<	9	
6 #!..@-	-			XX-	dat.ab <	32,	}	15	
7 #!.@.-	-	+		XX-	djn.b {	2,	}	23	
8 #!@..-	-	+	+--	XX-	mov.i >	54,	{	46	
9 #@...-	-	+	+--	XXX-	spl.b #	34,	<	9	
10 #!.@.-	-	+	+--	XXX-	djn.b {	2,	}	23	
11 #!.@.-	-	+	+--	XXX-	djn.b {	2,	}	23	
12 #!@..-	-	+	+---	XXX-	mov.i >	54,	{	46	
13 #@...-	-	+	+---	XXXX-	spl.b #	34,	<	9	
14 #!@..-	-	+	+---	XXXX-	mov.i >	54,	{	46	
15 #@...-	-	+	+---	XXXXX-	spl.b #	34,	<	9	
16 #!.@.-	-	+	+---	XXXXX-	djn.b {	2,	}	23	
17 #!@..-	-	+	+---	XXXXX-	mov.i >	54,	{	46	
18 #@...-	-	+	+---	XXXXXX-	spl.b #	34,	<	9	
19 #!.@.-	-	+	+---	XXXXXX-	djn.b {	2,	}	23	
20 #!@..-	-	+	+---	XXXXXX-	mov.i >	54,	{	46	
21 #@...-	-	+	+---	XXXXXXX-	spl.b #	34,	<	9	
22 @!...-	-	+	+---	XXXXXXX-	spl.b #	38,	<	62	
23 !!..@.-	-	+	+---	XXXXXXX-	djn.b {	2,	}	23	
24 !!@..-	-	+	+---	XXXXXXX-	mov.i >	54,	{	46	
25 !!@...-	-	+	+---	XXXXXXXX-	spl.b #	34,	<	9	
26 !!...-	-	+	+---	XXXXXXXX-	@  dat.f \$	0,	\$	0	
27 !!..@.-	-	+	+---	XXXXXXXX-	djn.b {	2,	}	23	
28 !!@..-	-	+	+---	XXXXXXXX-	mov.i >	54,	{	46	
29 !!@...-	-	+	+---	XXXXXXXXX-	spl.b #	34,	<	9	
30 !!@...-	-	+	+---	XXXXXXXXX-	spl.b #	34,	<	9	
31 !!@...-	-	+	+---	XXXXXXXXX-	spl.b #	38,	<	62	
32 !!...-	-	+	+---	XXXXXXXXX-	@.  dat.f \$	0,	\$	0	
33 !!..@.-	-	+	+---	XXXXXXXXX-	djn.b {	2,	}	23	
34 !!@..-	-	+	+---	XXXXXXXXX-	mov.i >	54,	{	46	
35 !!@...-	-	+	+---	XXXXXXXXX-	spl.b #	34,	<	9	
36 !!...-	-	+	+---	XXXXXXXXX-	@..  dat.f \$	0,	\$	0	
37 !!..@.-	-	+	+---	XXXXXXXXX-	djn.b {	2,	}	23	
38 !!@..-	-	+	+---	XXXXXXXXX-	mov.i >	54,	{	46	
39 !!@...-	-	+	+---	XXXXXXXXX-	spl.b #	34,	<	9	
40 !!@...-	-	+	+---	XXXXXXXXX-	mov.i >	54,	{	46	



# Drugganator – Evolvernano173038

NE 107.0, ZDNE 99.2

```
;name Evolvernano173038
;author Drugganator
;url https://forum.croydondeluxe.co.uk
;strategy evolved
;strategy Mother 169421
;strategy Father -1
;strategy Generation 70
;redcode-nano
;assert 1

ORG 1

SPL.B    #38, <-18
SPL      #-41, <9
MOV.I    >54, {46
DJN      {2, }23
DAT.AB   <32, }-65
END
```

vs. Evolvernano173038	Score	Given
-----	-----	-----
[RS] Nextratulated Sturvi	200.0	85.9
8c09fc1a-4799259f-1747246	195.8	92.3
Transfer Function	194.4	95.1
Cold Plasma	193.0	78.9
145_13.red	186.6	100.0
Combat Arithmetic	185.2	100.7
14_12.red	184.5	102.1
Quantum Foam	181.0	104.9
[RS] Existephall Apris	180.3	78.9
128_48.red	178.2	114.8
Nonlocality	173.9	95.8
Unholy Fire	173.2	97.2
032_42.red	160.6	124.6
b69e6908-a5be0bba-ab4445f	159.2	121.1
Diffraction Limit S5	154.2	131.0
Pacler Deux	150.7	119.0
Flamewraith	150.0	124.6
Nonlocality 2	137.3	133.1

# Drugganator – Evolvernano173038 – Execution Trace

0 #@###					spl.b #	39,	<	9
1 #!@##	-				mov.i >	54,	{	46
2 #@.##	-			X-	spl.b #	39,	<	9
3 #!.@#	-			X-	djn.b {	2,	}	23
4 #!.@.#-	-	-		X-	mov.i >	54,	{	46
5 #@..#-	-			XX-	spl.b #	39,	<	9
6 #!..@-	-			XX-	dat.ab <	32,	}	15
7 #!.@.-	-	+		XX-	djn.b {	2,	}	23
8 #!@..-	-	+	+--	XX-	mov.i >	54,	{	46
9 #@...-	-	+	+--	XXX-	spl.b #	39,	<	9
10 #!.@.-	-	+	+--	XXX-	djn.b {	2,	}	23
11 #!.@.-	-	+	+--	XXX-	djn.b {	2,	}	23
12 #!@..-	-	+	+---	XXX-	mov.i >	54,	{	46
13 #@...-	-	+	+---	XXXX-	spl.b #	39,	<	9
14 #!@..-	-	+	+---	XXXX-	mov.i >	54,	{	46
15 #@...-	-	+	+---	XXXXX-	spl.b #	39,	<	9
16 #!.@.-	-	+	+---	XXXXX-	djn.b {	2,	}	23
17 #!@..-	-	+	+---	XXXXX-	mov.i >	54,	{	46
18 #@...-	-	+	+---	XXXXX-	spl.b #	39,	<	9
19 #!.@.-	-	+	+---	XXXXX-	djn.b {	2,	}	23
20 #!@..-	-	+	+---	XXXXX-	mov.i >	54,	{	46
21 #@...-	-	+	+---	XXXXX-	spl.b #	39,	<	9
22 @!...-	-	+	+---	XXXXX-	spl.b #	38,	<	62
23 !!.@.-	-	+	+---	XXXXX-	djn.b {	2,	}	23
24 !!.@.-	-	+	+---	XXXXX-	mov.i >	54,	{	46
25 !@...-	-	+	+---	XXXXX-	spl.b #	39,	<	9
26 !!.@.-	-	+	+---	XXXXX-	@  dat.f \$	0,	\$	0
27 !!.@.-	-	+	+---	XXXXX-	djn.b {	2,	}	23
28 !!.@.-	-	+	+---	XXXXX-	mov.i >	54,	{	46
29 !@...-	-	+	+---	XXXXX-	spl.b #	39,	<	9
30 !@...-	-	+	+---	XXXXX-	spl.b #	39,	<	9
31 @!...-	-	+	+---	XXXXX-	spl.b #	38,	<	62
32 !!.@.-	-	+	+---	XXXXX-	@.  dat.f \$	0,	\$	0
33 !!.@.-	-	+	+---	XXXXX-	..  djn.b {	2,	}	23
34 !!.@.-	-	+	+---	XXXXX-	..  mov.i >	54,	{	46
35 !@...-	-	+	+---	XXXXX-	..  spl.b #	39,	<	9
36 !!.@.-	-	+	+---	XXXXX-	@..  dat.f \$	0,	\$	0
37 !!.@.-	-	+	+---	XXXXX-	...  djn.b {	2,	}	23
38 !!.@.-	-	+	+---	XXXXX-	...  mov.i >	54,	{	46
39 !@...-	-	+	+---	XXXXX-	...  spl.b #	39,	<	9
40 !!.@.-	-	+	+---	XXXXX-	...  mov.i >	54,	{	46



# koorogi – Astarion

NE 106.7, ZDNE 104.0

	vs. Astarion	Score	Given
	-----	-----	-----
;redcode	145_13.red	217.6	78.2
;name Astarion	Diffraction Limit S5	213.4	82.4
;author koorogi	8c09fc1a-4799259f-1747246	197.2	93.7
;strategy evolved	128_48.red	192.3	95.1
;created 2025.06.14	Transfer Function	191.5	81.7
;assert CORESIZE == 80	b69e6908-a5be0bba-ab4445f	186.6	87.3
	14_12.red	183.1	107.0
ORG 0	Unholy Fire	173.9	83.1
SPL.BA #59, >19	Quantum Foam	172.5	119.7
SPL.BA #30, >68	[RS] Nextratulated Sturvi	169.7	108.5
MOV.I #27, <35	Nonlocality 2	162.0	94.4
SPL.F \$29, {76	Pacler Deux	153.5	88.0
JMN.A >69, \$8	Nonlocality	152.1	105.6
	032_42.red	152.1	128.9
END	Cold Plasma	150.7	102.1
	Flamewraith	146.5	97.9
	[RS] Existephall Apris	143.7	105.6
	Combat Arithmetic	118.3	173.2

# koorogi – Astarion – Execution Trace

```

0|#####          | spl.ba # 59, > 19
1|!#####          +          | spl.ba # 30, > 68
2|!#####          +          | spl.ba # 59, > 19
3|!#####          +          | mov.i # 27, < 35
4|!@.##           +          | spl.ba # 30, > 68
                    X-
5|!@.##           +          | spl.ba # 30, > 68
                    X-
6|!@.##           +          | spl.ba # 59, > 19
                    X-
7|!@.##           +          | spl.f $ 29, { 76
                    X-
8|!@.##           +          | mov.i # 27, < 35
                    ! XX-
9|!@.##           +          | spl.ba # 30, > 68
                    ! XX-
10|!@.##           +          | mov.i # 27, < 35
                    ! XXX-
11|!@.##           +          | spl.ba # 30, > 68
                    ! XXX-
12|!@.##           +          | spl.ba # 30, > 68
                    ! XXX-
13|!@.##           +          | spl.ba # 59, > 19
                    ! XXX-
14|!@.##           +          | jmn.a > 69, $ 8
                    @ XXX-
15|!@.##           ?          +          | dat.f $ 0, $ 0
                    . XXX-
16|!@.##           ?          +          | spl.f $ 29, { 76
                    ! XXX-
17|!@.##           ?          +          | mov.i # 27, < 35
                    ! XXXX-
18|!@.##           ?          +          | spl.ba # 30, > 68
                    ! XXXX-
19|!@.##           ?          +          | spl.f $ 29, { 76
                    ! XXXX-
20|!@.##           ?          +          | mov.i # 27, < 35
                    XXXXX-
21|!@.##           ?          +          | spl.ba # 30, > 68
                    XXXXX-
22|!@.##           ?          +          | mov.i # 27, < 35
                    XXXXX-
23|!@.##           ?          +          | spl.ba # 30, > 68
                    XXXXX-
24|!@.##           ?          +          | spl.ba # 30, > 68
                    XXXXX-
25|!@.##           ?          +          | spl.ba # 59, > 19
                    XXXXX-
26|!@.##           ?          +          | dat.f $ 0, $ 0
                    XXXXX-
27|!@.##           ?          +          | jmn.a > 69, $ 8
                    X@XXXX-
28|!@.##           ?          +          | mov.i # 27, < 35
                    X.XXXX-
29|!@.##           ?          +          | spl.f $ 29, { 76
                    X!XXXX-
30|!@.##           ?          +          | mov.i # 27, < 35
                    XX!XXXX-
31|!@.##           ?          +          | spl.ba # 30, > 68
                    XX!XXXX-
32|!@.##           ?          +          | jmn.a > 69, $ 8
                    XX@XXXX-
33|!@.##           ?          +          | mov.i # 27, < 35
                    XX.XXXX-
34|!@.##           ?          +          | spl.f $ 29, { 76
                    XX!XXXX-
35|!@.##           ?          +          | mov.i # 27, < 35
                    XXX!XXXX-
36|!@.##           ?          +          | spl.ba # 30, > 68
                    XXX!XXXX-
37|!@.##           ?          +          | spl.f $ 29, { 76
                    XX-
38|!@.##           ?          +          | mov.i # 27, < 35
                    XXXX!XXXX-
39|!@.##           ?          +          | spl.ba # 30, > 68
                    XXXX!XXXX-
40|!@.##           ?          +          | mov.i # 27, < 35
                    XXXX!XXXX-

```



# koorogi – Karlach

NE 154.0, ZDNE 147.6

	vs. Karlach	Score	Given
;redcode	-----	-----	-----
;name Karlach			
;author koorogi	Diffraction Limit S5	153.5	138.7
;strategy evolved	145_13.red	152.1	131.0
;created 2025.06.09	b69e6908-a5be0bba-ab4445f	149.3	126.1
;assert CORESIZE == 80	128_48.red	147.9	135.2
	8c09fc1a-4799259f-1747246	131.0	150.0
ORG 0	Flamewraith	125.4	116.9
	[RS] Nextratulated Sturvi	123.9	157.7
SPL.F #55, >26	Nonlocality	123.2	125.4
MOV.I #64, }1	14_12.red	123.2	154.9
SPL.I {45, }61	[RS] Existephall Apris	120.4	122.5
SPL.F #54, {39	Nonlocality 2	116.9	127.5
DJN.AB <30, }65	032_42.red	113.4	162.0
	Pacler Deux	111.3	126.1
END	Transfer Function	107.7	147.9
	Cold Plasma	103.5	137.3
	Unholy Fire	100.7	143.0
	Quantum Foam	91.5	193.0
	Combat Arithmetic	54.2	227.5



# lain – gazette

NE 159.7, ZDNE 149.0

```
;redcode-nano
;name gazette
;author lain
;strategy paper for the nano tournament 25
```

```
ORG          0
SPL.B #      0, > 54
MOV.I }      -1, } 1
SPL.B {      44, > 54
MOV.I {      70, { 27
DJN.X $      -1, { 39
END
```

vs. gazette	Score	Given
-----	-----	-----
Nonlocality	143.0	119.7
128_48.red	140.1	146.5
Flamewraith	134.5	132.4
Nonlocality 2	130.3	134.5
[RS] Existephall Apris	129.6	116.9
b69e6908-a5be0bba-ab4445f	127.5	148.6
Cold Plasma	123.2	127.5
145_13.red	121.1	161.3
Pacler Deux	119.7	138.7
Transfer Function	117.6	157.7
032_42.red	116.2	164.8
Unholy Fire	114.8	150.7
Diffraction Limit S5	113.4	170.4
8c09fc1a-4799259f-1747246	110.6	171.8
14_12.red	109.2	174.6
Quantum Foam	105.6	183.8
Combat Arithmetic	102.1	176.1
[RS] Nextratulated Sturvi	94.4	191.5

# lain – gazette – Execution Trace

```

0|##### | spl.b # 0 , > 54
1|!##### | mov.i } 79 , } 1
2|@.+# # X + | spl.b # 1 , > 54
3|!.@## X + | spl.b { 45 , > 54
4|!@.## !- + + | mov.i } 79 , } 1
5|@.+# !X + + | spl.b # 2 , > 54
6|!.+@# !X + + | mov.i { 70 , { 27
7|!.+.# X- @X + + - | spl.b # 0 , > 54
8|!.@.# + X- !X + + - | spl.b { 46 , > 54
9|!@.## + X- !- + + - | mov.i } 79 , } 1
10|@.+.# + X- !!X + + - | spl.b # 3 , > 54
11|!.+@ + X- !!X + + - | djn.x $ 79 , { 39
12|!.+.. + X- -- !@X + + - | mov.i } 79 , } 1
13|!.+.. X + X- -- @.+ + + - | spl.b # 1 , > 54
14|!.+@. X + X- -- !.+ + + - | mov.i { 70 , { 27
15|!.+.. X + XX- -- !@+ + + - | mov.i } 79 , } 1
16|!.@.. XX + XX- -- +.+ + + - | spl.b { 47 , > 54
17|!@... XX + XX- -- +.!- + + - | mov.i } 79 , } 1
18|@.+. XX + XX- -- +!X + + - | spl.b # 4 , > 54
19|!.+@. XX + XX- -- +!X + + - | mov.i { 70 , { 27
20|!.+.. XX + XXX- -- +.@X + + - | spl.b { 48 , > 54
21|!.+.. X!- + + XXX- -- +@.X + + - | mov.i } 79 , } 1
22|!.+.. X!X + + XXX- -- @.+X + + - | spl.b # 3 , > 54
23|!.+@ X!X + + XXX- -- !.+X + + - | djn.x $ 79 , { 39
24|!.+.. X!X + + XXX- --- !.@X + + - | spl.b { 49 , > 54
25|!.+@. X!!- + + XXX- --- !..X + + - | mov.i { 70 , { 27
26|!.+.. X!!- + + XXXX- --- !.@X + + - | spl.b { 49 , > 54
27|!.@.. X!!- + + XXXX- --- !..X + + - | spl.b { 48 , > 54
28|!@... X!!- + + XXXX- --- !!- + + - | mov.i } 79 , } 1
29|@.+. X!!- + + XXXX- --- !!X + + - | spl.b # 5 , > 54
30|!.+@ X!!- + + XXXX- --- !!X + + - | djn.x $ 79 , { 39
31|!.+.. X!!- + + XXXX- ---- !.@X + + - | mov.i { 70 , { 27
32|!.+.. X@!- + + XXXX- ---- !..X + + - X- | mov.i } 79 , } 1
33|!.+.. +.+ + + XXXX- ----- !.@.X + + X - X- | spl.b { 49 , > 54
34|!.+.. !.+ + + XXXX- ----- !.@.X + + X - X- | mov.i } 79 , } 1
35|!.+.. !.+X + + XXXX- ----- @.+X + + X - X- | spl.b # 4 , > 54
36|!.+@. !.+X + + XXXX- ----- !.+X + + X - X- | mov.i { 70 , { 27
37|!.+.. !.+X + + XXXXX- ----- !.+@X + + X - X- | mov.i { 70 , { 27
38|!.+.. !.@X + + XXXXX- ----- !.+X + + X -XX- | spl.b { 49 , > 54
39|!.+@ !..X + + XXXXX- ----- !.+X + + !- + -XX- | djn.x $ 79 , { 39
40|!.+.. !..X + + XXXXX- ----- !.+@X + + !- + -XX- | mov.i { 70 , { 27

```



# lain – conduit

NE 150.9, ZDNE 138.8

```
;redcode-nano
;name conduit
;author lain
;strategy stream for the nano tournament 25
;assert 1
```

```
ORG          0
SPL.B #      41, >    9
MOV.I >      56, {    39
MOV.I #      75, >    62
MOV.I >      25, {    79
DJN.F $      -3, <    17
END
```

vs. conduit	Score	Given
-----	-----	-----
145_13.red	182.4	114.8
[RS] Existephall Apris	174.6	102.8
Cold Plasma	172.5	109.2
Flamewraith	157.0	121.1
Transfer Function	151.4	140.8
[RS] Nextratulated Sturvi	147.9	147.9
128_48.red	146.5	144.4
Diffraction Limit S5	146.5	146.5
Combat Arithmetic	146.5	150.7
Quantum Foam	143.7	154.2
8c09fc1a-4799259f-1747246	138.7	159.9
b69e6908-a5be0bba-ab4445f	138.0	157.0
Nonlocality 2	137.3	147.9
Pacler Deux	135.9	140.1
032_42.red	134.5	159.9
14_12.red	126.8	171.1
Unholy Fire	119.0	165.5
Nonlocality	109.2	168.3

# lain – conduit – Execution Trace

```
0|##### | spl.b # 41, > 9
1|!##### + | mov.i > 56, { 39
2|@.### + | spl.b # 41, > 9
3|!.@## + | mov.i # 75, > 62
4|!@.## + | mov.i > 56, { 39
5|@..## + | spl.b # 41, > 9
6|!..@# + | mov.i > 25, { 79
7|!.@.# + + | mov.i # 74, > 62
8|!@..# + + | mov.i > 56, { 39
9|@...# + + | spl.b # 41, > 9
10|!...@ + + | djn.f $ 77, < 17
11|!..@. + -- + | mov.i > 25, { 79
12|!.@.. + -- + | mov.i # 73, > 62
13|!@... + -- + | mov.i > 56, { 39
14|@.... + -- + | spl.b # 41, > 9
15|!@... + -- + | mov.i > 56, { 39
16|!...@ + -- + | djn.f $ 77, < 17
17|!..@. + --- + | mov.i > 25, { 79
18|!.@.. + --- + | mov.i # 72, > 62
19|!@... + --- + | mov.i > 56, { 39
20|@.... + --- + | spl.b # 41, > 9
21|!@... + --- + | mov.i # 72, > 62
22|!@... + --- + | mov.i > 56, { 39
23|!...@ + --- + | djn.f $ 77, < 17
24|!..@. + ---- + | mov.i > 25, { 79
25|!.@.. + ---- + | mov.i # 71, > 62
26|!@... + ---- + | mov.i > 56, { 39
27|@.... + ---- + | spl.b # 41, > 9
28|!..@. + ---- + | mov.i > 25, { 79
29|!.@.. + ---- + | mov.i # 70, > 62
30|!@... + ---- + | mov.i > 56, { 39
31|!...@ + ---- + | djn.f $ 77, < 17
32|!..@. + ---- + | mov.i > 25, { 79
33|!.@.. + ---- + | mov.i # 69, > 62
34|!@... + ---- + | mov.i > 56, { 39
35|@.... + ---- + | spl.b # 41, > 9
36|!...@ + ---- + | djn.f $ 77, < 17
37|!..@. + ---- + | mov.i > 25, { 79
38|!.@.. + ---- + | mov.i # 68, > 62
39|!@... + ---- + | mov.i > 56, { 39
40|!...@ + ---- + | djn.f $ 77, < 17
```

# Telkkar – Discreet Foghorn

NE 120.4, ZDNE 113.4

```
;redcode-nano
;name Discreet Foghorn
;author Telkkar
;date 2025-06-14
;assert CORESIZE == 80
```

```
SPL.a # 47, > -42
MOV.i # 44, < 16
ADD.f # 27, > 21
MOV.i $ 73, < 56
JMP.i $ 79, > -24
```

vs. Discreet Foghorn	Score	Given
-----	-----	-----
Quantum Foam	197.9	96.5
145_13.red	197.2	100.0
Nonlocality	195.1	83.1
8c09fc1a-4799259f-1747246	189.4	109.2
[RS] Nextratulated Sturvi	185.9	109.9
[RS] Existephall Apris	182.4	93.7
032_42.red	181.7	109.9
Combat Arithmetic	178.2	114.8
b69e6908-a5be0bba-ab4445f	176.8	104.9
Diffraction Limit S5	173.2	122.5
Flamewraith	171.8	100.0
128_48.red	169.0	122.5
Unholy Fire	166.2	117.6
Cold Plasma	164.1	109.2
Nonlocality 2	155.6	121.8
Pacler Deux	152.1	124.6
14_12.red	147.2	149.3
Transfer Function	139.4	145.8

# Telkkar – Discreet Foghorn – Execution Trace

0 #####					spl.a #	47 , >	38
1 !####					mov.i #	44 , <	16
2 @.###	X-				spl.a #	47 , >	38
3 !.##	X-				add.f #	27 , >	21
4 !@.##	X-	*			mov.i #	44 , <	16
5 @..##	XX-	*			spl.a #	47 , >	38
6 !..@#	XX-	*			mov.i \$	73 , <	56
7 !@.#	XX-	*		X-	add.f #	27 , >	21
8 !@..#	XX-	+		*	mov.i #	44 , <	16
9 @...#	XXX-	+		*	spl.a #	47 , >	38
10 !...@	XXX-	+		*	jmp.i \$	79 , >	56
11 !..@.	XXX-	+		*	mov.i \$	73 , <	56
12 !@..	XXX-	+		*	add.f #	27 , >	21
13 !@...	XXX-	+		**	mov.i #	44 , <	16
14 @....	XXXX-	+		**	spl.a #	47 , >	38
15 !..@.	XXXX-	+		**	mov.i \$	73 , <	56
16 !...@	XXXX-	+		**	jmp.i \$	79 , >	56
17 !..@.	XXXX-	+		**	mov.i \$	73 , <	56
18 !@..	XXXX-	+		**	add.f #	27 , >	21
19 !@...	XXXX-	+		***	mov.i #	44 , <	16
20 @....	XXXXX-	+		***	spl.a #	47 , >	38
21 !...@	XXXXX-	+		***	jmp.i \$	79 , >	56
22 !..@.	XXXXX-	+		***	mov.i \$	73 , <	56
23 !...@	XXXXX-	+		***	jmp.i \$	79 , >	56
24 !..@.	XXXXX-	+		***	mov.i \$	73 , <	56
25 !@..	XXXXX-	+		***	add.f #	27 , >	21
26 !@...	XXXXX-	+		****	mov.i #	44 , <	16
27 @....	XXXXXX-	+		****	spl.a #	47 , >	38
28 !..@.	XXXXXX-	+		****	mov.i \$	73 , <	56
29 !...@	XXXXXX-	+		****	jmp.i \$	79 , >	56
30 !..@.	XXXXXX-	+		****	mov.i \$	73 , <	56
31 !...@	XXXXXX-	+		****	jmp.i \$	79 , >	56
32 !..@.	XXXXXX-	+		****	mov.i \$	73 , <	56
33 !@..	XXXXXX-	+		****	add.f #	27 , >	21
34 !@...	XXXXXX-	+		*****	mov.i #	44 , <	16
35 @....	XXXXXXX-	+		*****	spl.a #	47 , >	38
36 !...@	XXXXXXX-	+		*****	jmp.i \$	79 , >	56
37 !..@.	XXXXXXX-	+		*****	mov.i \$	73 , <	56
38 !...@	XXXXXXX-	+		*****	jmp.i \$	79 , >	56
39 !..@.	XXXXXXX-	+		*****	mov.i \$	73 , <	56
40 !...@	XXXXXXX-	+		*****	jmp.i \$	79 , >	56



# Telkkar – Eventuality Of Goats

NE 131.7, ZDNE 125.9

```
;redcode-nano
;name Eventuality Of Goats
;author Telkkar
;date 2025-06-14
;assert CORESIZE == 80
```

```
SPL.f # 43, > 17
MOV.i # 4, > 67
SPL.ba $ 53, > 43
DJN.a $ 78, > 17
DAT.ab } 42, # 69
```

vs. Eventuality Of Goats	Score	Given
-----	-----	-----
[RS] Nextratulated Sturvi	188.0	103.5
Nonlocality	174.6	81.7
Quantum Foam	165.5	125.4
145_13.red	163.4	127.5
[RS] Existephall Apris	157.7	90.1
Transfer Function	157.7	117.6
Cold Plasma	152.1	103.5
Nonlocality 2	149.3	100.7
8c09fc1a-4799259f-1747246	147.2	143.0
128_48.red	145.1	147.2
14_12.red	144.4	144.4
Combat Arithmetic	137.3	152.1
Unholy Fire	132.4	113.4
Flamewraith	128.9	107.7
032_42.red	128.2	166.2
b69e6908-a5be0bba-ab4445f	128.2	147.2
Diffraction Limit S5	125.4	165.5
Pacler Deux	117.6	128.2

# Telkkar – Eventuality Of Goats – Execution Trace

```

0|#####          | spl.f # 43 , > 17
1|!#####          | mov.i # 4 , > 67
2|@.###          +          | spl.f # 43 , > 17
3|!.@##          +          | spl.ba $ 53 , > 43
4|!@.##          +          | mov.i # 4 , > 67
5|@..##          +          | spl.f # 43 , > 17
6|!..@#          +          | djn.a $ 78 , > 17
7|!...#          + -         | mov.i # 4 , > 67
8|!.@.#          + -         | spl.ba $ 53 , > 43
9|!@..#          + -         | mov.i # 4 , > 67
10|@...#          + -         | spl.f # 43 , > 17
11|!@..#          + -         | mov.i # 4 , > 67
12|!...#          + -         | mov.i # 4 , > 67
13|!..@#          + -         | djn.a $ 78 , > 17
14|!...#          + +-        | mov.i # 4 , > 67
15|!.@.#          + +-        | spl.ba $ 53 , > 43
16|!@..#          + +-        | mov.i # 4 , > 67
17|@...#          + +-        | spl.f # 43 , > 17
18|!.@.#          + +-        | spl.ba $ 53 , > 43
19|!...#          + +-        | mov.i # 4 , > 67
20|!@..#          + +-        | mov.i # 4 , > 67
21|!...#          + +-        | mov.i # 4 , > 67
22|!..@#          + +-        | djn.a $ 78 , > 17
23|!...#          + +--       | mov.i # 4 , > 67
24|!.@.#          + +--       | spl.ba $ 53 , > 43
25|!@..#          + +--       | mov.i # 4 , > 67
26|@...#          + +--       | spl.f # 43 , > 17
27|!..@#          + +--       | djn.a $ 78 , > 17
28|!...#          + +----      | mov.i # 4 , > 67
29|!...#          + +----      | mov.i # 4 , > 67
30|!.@.#          + +----      | spl.ba $ 53 , > 43
31|!...#          + +----      | mov.i # 4 , > 67
32|!@..#          + +----      | mov.i # 4 , > 67
33|!...#          + +----      | mov.i # 4 , > 67
34|!..@#          + +----      | djn.a $ 78 , > 17
35|!...#          + +----      | mov.i # 4 , > 67
36|!.@.#          + +----      | spl.ba $ 53 , > 43
37|!@..#          + +----      | mov.i # 4 , > 67
38|@...#          + +----      | spl.f # 43 , > 17
39|!@..#          + +----      | mov.i # 4 , > 67
40|!...#          + +----      | mov.i # 4 , > 67

```



# raptor – hymn of the hollow star

NE 152.2, ZDNE 143.7

```
;redcode-nano
;name hymn of the hollow star
;author raptor
;strategy a man may die but not his ideas
;assert CORESIZE==80
```

```
spl      #      -4, >      16
mov.i    #      38, <      2
mov      {      -1, {      -2
mov      >      31, {      27
djn.f    #      -3, <      43
end
```

vs. hymn of the hollow st	Score	Given
-----	-----	-----
Diffraction Limit S5	197.2	97.9
145_13.red	166.9	131.0
Nonlocality	163.4	119.0
128_48.red	161.3	131.7
[RS] Nextratulated Sturvi	150.0	147.9
Cold Plasma	150.0	126.8
Flamewraith	149.3	136.6
b69e6908-a5be0bba-ab4445f	143.0	153.5
Unholy Fire	141.5	147.9
14_12.red	137.3	156.3
[RS] Existephall Apris	135.2	143.7
Pacler Deux	133.8	142.3
032_42.red	133.1	158.5
Quantum Foam	130.3	166.2
Transfer Function	128.9	160.6
Combat Arithmetic	127.5	169.7
8c09fc1a-4799259f-1747246	125.4	173.9
Nonlocality 2	116.9	165.5

# raptor – hymn of the hollow star – Execution Trace

```

0|##### | spl.b # 76 , > 16
1|!##### + | mov.i # 38 , < 2
2|@.#-# + | spl.b # 76 , > 16
3|!.@-# + | mov.i { 79 , { 78
4|-@.-# + | mov.i # 37 , < 2
5|@.-# + | spl.b # 75 , > 16
6|!..@# + | mov.i > 31 , { 25
7|!.@.# + | mov.i { 79 , { 78
8|-@..# + | mov.i # 36 , < 2
9|@.-# + | spl.b # 74 , > 16
10|!..-@ + | djn.f $ 77 , < 43
11|!..@. + | mov.i > 31 , { 24
12|!.@.. + | mov.i { 79 , { 78
13|-@... + | mov.i # 35 , < 2
14|@.-. + | spl.b # 73 , > 16
15|!@.- + | mov.i # 35 , < 2
16|!..-@ + | djn.f $ 77 , < 43
17|!..@. + | mov.i > 31 , { 22
18|!.@.. + | mov.i { 79 , { 78
19|-@... + | mov.i # 34 , < 2
20|@.-. + | spl.b # 72 , > 16
21|!@.- + | mov.i { 79 , { 78
22|-@.- + | mov.i # 33 , < 2
23|-.@-@ + | djn.f $ 77 , < 43
24|-.@.@ + | mov.i > 31 , { 20
25|-.@.. + | mov.i { 79 , { 78
26|-@... + | mov.i # 32 , < 2
27|@.-. + | spl.b # 70 , > 16
28|!..@. + | mov.i > 31 , { 19
29|!.@.. + | mov.i { 79 , { 78
30|-@... + | mov.i # 31 , < 2
31|-.@-@ + | djn.f $ 77 , < 43
32|-.@.@ + | mov.i > 31 , { 18
33|-@.. + | mov.i { 79 , { 78
34|-@... + | mov.i # 30 , < 2
35|@.-. + | spl.b # 68 , > 16
36|!..-@ + | djn.f $ 77 , < 43
37|!..@. + | mov.i > 31 , { 17
38|!.@.. + | mov.i { 79 , { 78
39|-@... + | mov.i # 29 , < 2
40|-.@-@ + | djn.f $ 77 , < 43

```

# raptor – shards of the pale moon

NE 155.5, ZDNE 142.9

```
;redcode-nano
;name shards of the pale moon
;author raptor
;strategy a man may die but not his ideas
;assert CORESIZE==80
```

```
spl      #      36, >      22
spl      #      27, }      32
mov.i    #     -25, }       1
mov.i    #     -22, }       1
djn.f    #     -37, {      14
end
```

vs. shards of the pale mo	Score	Given
-----	-----	-----
Diffraction Limit S5	170.4	119.7
Nonlocality	151.4	90.1
[RS] Nextratulated Sturvi	147.9	135.2
Unholy Fire	131.0	109.9
Cold Plasma	131.0	118.3
[RS] Existephall Apris	129.6	119.0
Pacler Deux	127.5	106.3
8c09fc1a-4799259f-1747246	123.2	161.3
Transfer Function	118.3	139.4
b69e6908-a5be0bba-ab4445f	116.9	154.9
145_13.red	116.2	171.1
Flamewraith	113.4	117.6
128_48.red	113.4	162.0
Nonlocality 2	102.1	138.0
032_42.red	100.0	171.8
Quantum Foam	88.7	188.0
14_12.red	86.6	185.9
Combat Arithmetic	73.2	210.6

# raptor – shards of the pale moon – Execution Trace

```

0|##### | spl.b # 36 , > 22
1|!##### + | spl.b # 27 , } 32
2|!##### + + | spl.b # 36 , > 22
3|!##### + + | mov.i # 55 , } 1
4|!@.+# + + | spl.b # 27 , } 32
5|!@.+# + + | spl.b # 27 , } 32
6|!@.+# + + | spl.b # 36 , > 22
7|!!@# + + | mov.i # 59 , } 1
8|!!@.+ + + | mov.i # 55 , } 1
9|!@.++ + + | spl.b # 27 , } 32
10|!!@++ + + | mov.i # 55 , } 1
11|!@.++ + + | spl.b # 27 , } 32
12|!@.++ + + | spl.b # 27 , } 32
13|!@.++ + + | spl.b # 36 , > 22
14|!!@ + + | djn.f $ 44 , { 14
15|!!@. -- + + | mov.i # 61 , } 1
16|!!@.+ -- + + | mov.i # 55 , } 1
17|!@.++ -- + + | spl.b # 27 , } 32
18|!!@ + -- + + | mov.i # 62 , } 1
19|!!@.+ -- + + | mov.i # 55 , } 1
20|!@.++ -- + + | spl.b # 27 , } 32
21|!!@++ -- + + | mov.i # 55 , } 1
22|!@.++ -- + + | spl.b # 27 , } 32
23|!@.++ -- + + | spl.b # 27 , } 32
24|!@.++ -- + + | spl.b # 36 , > 22
25|!!@.++ -- + + | mov.i # 61 , } 1
26|!!@.++ -- + X + | djn.f $ 46 , { 14
27|!!@. --- + X + | mov.i # 64 , } 1
28|!!@. --- + X + | mov.i # 55 , } 1
29|!@.++ --- + X + | spl.b # 27 , } 32
30|!!@ + --- + X + | djn.f $ 47 , { 14
31|!!@. ---- + X + | mov.i # 65 , } 1
32|!!@.+ ---- + X + | mov.i # 55 , } 1
33|!@.++ ---- + X + | spl.b # 27 , } 32
34|!!@ + ---- + X + | mov.i # 66 , } 1
35|!!@.+ ---- + X + | mov.i # 55 , } 1
36|!@.++ ---- + X + | spl.b # 27 , } 32
37|!!@ + ---- + X + | mov.i # 55 , } 1
38|!@.++ ---- + X + | spl.b # 27 , } 32
39|!@.++ ---- + X + | spl.b # 27 , } 32
40|!@.++ ---- + X + | spl.b # 36 , > 22

```



# Steve Gunnell – Gem Tumour

NE 144.7, ZDNE 144.2

```
;redcode-nano
;name Gem Tumour
;author Steve Gunnell
;strategy Misc 2 mov clear loop
;originalname Clear A gmtu
;assert CORESIZE==80
```

```
GO spl      #75 ,<43
   mov.i   {0 ,>45
   mov.i   >29 ,{-2
   mov.i   {-1 ,{43
   djn.f   -2 ,{49

   end GO
```

vs. Gem Tumour	Score	Given
-----	-----	-----
Cold Plasma	188.7	95.8
8c09fc1a-4799259f-1747246	170.4	128.2
Diffraction Limit S5	170.4	128.2
145_13.red	166.9	128.9
[RS] Existephall Apris	164.8	112.0
14_12.red	164.8	133.1
Transfer Function	161.3	133.8
032_42.red	159.9	132.4
128_48.red	152.8	144.4
Quantum Foam	145.1	151.4
Combat Arithmetic	141.5	154.2
[RS] Nextratulated Sturvi	137.3	154.2
b69e6908-a5be0bba-ab4445f	135.9	159.2
Flamewraith	134.5	153.5
Unholy Fire	130.3	164.1
Nonlocality	128.9	162.7
Pacler Deux	121.8	164.1
Nonlocality 2	117.6	176.8

# Steve Gunnell – Gem Tumour – Execution Trace

```

0|##### | spl.b # 75, < 43
1|!##### | mov.i { 0, > 45
2|@-### | spl.b # 75, < 43
3|!-@## | mov.i > 29, { 78
4|-@.## | + - X X | mov.i { 79, > 45
5|@..## X | + - + X | spl.b # 73, < 43
6|!.@.# X | + - + X | mov.i { 79, { 43
7|!.@.# X | + X - - X | mov.i > 28, { 78
8|-@..# X | ++ X - - X X | mov.i { 79, > 45
9|@..## XX | ++ X - + X X | spl.b # 71, < 43
10|!...@ XX | ++ X - + X X | djn.f $ 78, { 49
11|!..@. XX | ++ X - + -- X X | mov.i { 79, { 43
12|!.@.. XX | ++ XX - - -- X X | mov.i > 27, { 78
13|-@... XX | ++ XX - - -- X X X | mov.i { 79, > 45
14|@.... XXX | ++ XX - + -- X X X | spl.b # 69, < 43
15|!.@.. XXX | ++ XX - + -- X X X | mov.i > 27, { 78
16|-...@ XXX | ++ XX - + -- X X X X | djn.f $ 78, { 49
17|-.@.. XXX | ++ XX - + --- X X X X | mov.i { 79, { 43
18|-@... XXX | ++ XXX - - --- X X X X | mov.i > 26, { 78
19|-@... XXX | ++++ XXX - - --- XX X X X | mov.i { 79, > 45
20|@.... XXXX | ++++ XXX - + --- XX X X X | spl.b # 66, < 43
21|!..@. XXXX | ++++ XXX - + --- XX X X X | mov.i { 79, { 43
22|!.@.. XXXX | ++++ XXXX - - --- XX X X X | mov.i > 25, { 78
23|-...@ XXXX | ++++ XXXX - - --- X XX X X X | djn.f $ 78, { 49
24|-.@.. XXXX | ++++ XXXX - - ---- X XX X X X | mov.i { 79, { 43
25|-@... XXXX | ++++ XXXX - - ---- X XX X X X | mov.i > 24, { 78
26|-@... XXXX | ++++ XXXXX - - ---- XX XX X X X | mov.i { 79, > 45
27|@.... XXXXX | ++++ XXXXX - + ---- XX XX X X X | spl.b # 63, < 43
28|!...@ XXXXX | ++++ XXXXX - + ---- XX XX X X X | djn.f $ 78, { 49
29|!..@. XXXXX | ++++ XXXXX - + ----- XX XX X X X | mov.i { 79, { 43
30|!.@.. XXXXX | ++++ XXXXXX - - ----- XX XX X X X | mov.i > 23, { 78
31|-...@ XXXXX | ++++ XXXXXX - - ----- X XX XX X X X | djn.f $ 78, { 49
32|-.@.. XXXXX | ++++ XXXXXX - - ----- X XX XX X X X | mov.i { 79, { 43
33|-@... XXXXX | ++++ XXXXXXX - - ----- X XX XX X X X | mov.i > 22, { 78
34|-@... XXXXX | ++++ XXXXXXX - - ----- XX XX XX X X X | mov.i { 79, > 45
35|@.... XXXXXI | ++++ XXXXXXX - + ----- XI XI XI X X X | spl.b # 60, < 43
36|!.@.. XXXXXX | ++++ XXXXXXX - + ----- XX XX XX X X X | mov.i > 22, { 78
37|-...@ XXXXXX | ++++ XXXXXXX - + ----- X XX XX XX X X X | djn.f $ 78, { 49
38|-.@.. XXXXXX | ++++ XXXXXXX - +----- X XX XX XX X X X | mov.i { 79, { 43
39|-@... XXXXXX | ++++ XXXXXXX - ----- X XX XX XX X X X | mov.i > 21, { 78
40|-...@ XXXXXX | ++++ XXXXXXX - ----- XX XX XX XX X X X | djn.f $ 78, { 49

```

# Steve Gunnell – Vilifier

NE 138.8, ZDNE 138.0

	vs. Vilifier	Score	Given
	-----	-----	-----
;redcode-nano	[RS] Nextratulated Sturvi	188.7	102.1
;name Vilifier	128_48.red	173.2	116.2
;author Steve Gunnell	Nonlocality	152.8	125.4
;strategy Evolved from markov chained opcodes and random fields	Flamewraith	152.8	121.1
;strategy Form SPL MOV SPL MOV DJN	14_12.red	151.4	136.6
;originalname Azure nano vyfe	Quantum Foam	149.3	140.8
;assert CORESIZE==80	032_42.red	145.1	138.7
GATE equ (L00-4)	Pacler Deux	144.4	129.6
IMP equ 37	Cold Plasma	142.3	110.6
	Nonlocality 2	139.4	137.3
L00 SPL.F #0 ,>IMP*2	Transfer Function	135.9	129.6
L01 MOV.I }-1 ,}0 - (-1)	[RS] Existephall Apris	132.4	126.1
L02 SPL.F <54/2 ,<IMP+1	Combat Arithmetic	131.0	156.3
L03 MOV.I *IMP+1 ,<-3	b69e6908-a5be0bba-ab4445f	129.6	146.5
L04 DJN.F \$-1 ,<0-IMP	145_13.red	128.9	156.3
	8c09fc1a-4799259f-1747246	121.1	165.5
end L00	Unholy Fire	119.0	161.3
	Diffraction Limit S5	117.6	174.6

# Steve Gunnell – Vilifier – Execution Trace

```

0|#####                               | spl.f # 0 , > 74
1|!#####                               + | mov.i } 79 , } 1
2|@.+# X                               + | spl.f # 1 , > 74
3|!.## X                               + | spl.f < 28 , < 38
4|!@.## !- -                           + | mov.i } 79 , } 1
5|@.+# !X -                             + | spl.f # 2 , > 74
6|!.+@ !X -                             + | mov.i * 38 , < 77
7|-.+.# @X -                             X+ | spl.f # 0 , > 74
8|-.@.# + !X -                         X+ | spl.f < 29 , < 38
9|-.@.# + !!- -                       X+ | mov.i } 79 , } 1
10|@.+.# + !!X -                      X+ | spl.f # 3 , > 73
11|!.+@ + !!X -                      ++ | djn.f $ 79 , < 43
12|!.+.. + !@X - --                   ++ | mov.i } 79 , } 1
13|!.+.. + @,+ - --                   X ++ | spl.f # 1 , > 74
14|!.+@. + !,+ - --                   X ++ | mov.i * 38 , < 77
15|-.+.. + !@+ - --                   X X+++ | mov.i } 79 , } 1
16|-.@.. + +,+ - --                   XX X+++ | spl.f < 30 , < 38
17|-.@... + +,!- - --                   XX X+++ | mov.i } 79 , } 1
18|@.+. + +,!X - --                   XX X+++ | spl.f # 4 , > 72
19|!.+@. + +,!X - --                   XX +++ | mov.i * 38 , < 77
20|-.+.. + +.@X - --                   XX X+++ | spl.f < 31 , < 38
21|-.+.. + +@.X - --                   X!- - X+++ | mov.i } 79 , } 1
22|-.+.. + @.+X - --                   X!X - X+++ | spl.f # 3 , > 74
23|-.+@. + !,+X - --                   X!X - X+++ | djn.f $ 79 , < 43
24|-.+.. + !,@X - ---                   X!X - X+++ | spl.f < 32 , < 38
25|-.+@. + !..X - ---                   X!!- - X+++ | mov.i * 38 , < 77
26|-.+.. + !.@X - ---                   X!!- -XX+++ | spl.f < 32 , < 38
27|-.@.. + !..X - ---                   X!!- -XX+++ | spl.f < 31 , < 38
28|-.@... + !..!- - ---                   X!!- -XX+++ | mov.i } 79 , } 1
29|@.+. + !..!X - ---                   X!!- -XX+++ | spl.f # 5 , > 70
30|!.+@. + !..!X - ---                   X!!- -+X+++ | djn.f $ 79 , < 43
31|!.+.. + !..@X - ----                   X!!- -+X+++ | mov.i * 38 , < 77
32|!.+.. X+ -..X - ----                   X@!- -+X+++ | mov.i } 79 , } 1
33|!.+.. X X+ -.@.X - ----                   +,+ -+X+++ | spl.f < 32 , < 38
34|!.+.. X X+ -@.X - ----                   !,+ -+X+++ | mov.i } 79 , } 1
35|!.+.. X X+ @.+X - ----                   !,+X -+X+++ | spl.f # 4 , > 73
36|!.+@. X ++ !,+X - ----                   !,+X -+X+++ | mov.i * 38 , < 77
37|-.+.. X ++ !.+@X - ----                   !,+X X+X+++ | mov.i * 38 , < 77
38|-.+.. X X++ -.+X - ----                   !.@X X+X+++ | spl.f < 32 , < 38
39|-.+@. !- -X++ -,+X - ----                   !..X X+X+++ | djn.f $ 79 , < 43
40|-.+.. !- -X++ -.+@X - ----                   !..X X+X+++ | mov.i * 38 , < 77

```



# S.Fernandes – Ripple in the Equilibrium

NE 149.7, ZDNE 142.7

				vs. Ripple in the Equilib	Score	Given
				-----	-----	-----
;redcode-nano				Quantum Foam	182.4	102.1
;name Ripple in the Equilibrium				145_13.red	166.2	123.9
;author S.Fernandes				[RS] Existephall Apris	160.6	103.5
;strategy paper				Nonlocality	157.7	113.4
;assert CORESIZE == 80				Flamewraith	152.1	126.8
pstep	equ	-19		Nonlocality 2	150.7	123.2
ipos	equ	28		Combat Arithmetic	148.6	142.3
cpos	equ	-ipos		Pacler Deux	145.1	128.2
dpos	equ	11		Cold Plasma	134.5	128.2
	mov	{22	, 39	Unholy Fire	132.4	143.0
paper	spl	#0	, <pstep	[RS] Nextratulated Sturvi	131.7	157.0
	mov	}paper	, >paper	8c09fc1a-4799259f-1747246	129.6	161.3
	mov	>ipos	, <cpos	032_42.red	128.9	158.5
	djn.f	*pstep-2	, {dpos	128_48.red	124.6	164.8
	end			14_12.red	123.2	165.5
				b69e6908-a5be0bba-ab4445f	118.3	160.6
				Transfer Function	107.0	178.9
				Diffraction Limit S5	99.3	198.6



# S.Fernandes – Bombus Nashii

NE 148.6, ZDNE 142.8

				vs. Bombus Nashii	Score	Given
				-----	-----	-----
;redcode-nano				145_13.red	214.1	83.1
;name Bombus Nashii				Flamewraith	197.9	79.6
;author S.Fernandes				Nonlocality 2	193.0	93.7
;strategy scanner				Pacler Deux	192.3	93.0
;assert CORESIZE==80				Unholy Fire	176.8	104.9
step	org	attack		b69e6908-a5be0bba-ab4445f	175.4	122.5
	equ	43		Nonlocality	171.8	110.6
loop	add.ab	#step	, #45	Cold Plasma	161.3	131.7
attack	jmz.f	loop	, @loop	[RS] Nextratulated Sturvi	161.3	135.9
	mov.i	bomb	, >loop	Diffraction Limit S5	157.7	140.8
	djn.f	attack	, <74	[RS] Existephall Apris	149.3	147.2
bomb	mov.i	#4	, -1	Quantum Foam	139.4	158.5
	end			128_48.red	138.0	159.2
				Transfer Function	133.1	164.8
				Combat Arithmetic	133.1	166.9
				032_42.red	132.4	166.2
				8c09fc1a-4799259f-1747246	109.9	190.1
				14_12.red	96.5	200.0



# John Metcalf – Glitch//CORE

NE 163.6, ZDNE 151.0

```
;redcode-nano
;name Glitch//CORE
;author John Metcalf
;strategy paper/clear for the Nano Challenge
;assert CORESIZE==80
```

```
        pstep equ -36

paper   spl    #0,      >-7
        mov    }paper, }dest
dest    spl    {pstep,  >-27
clr     mov.i  @-20,    {26
        djn.f  clr,    {-16
```

vs. Glitch//CORE	Score	Given
-----	-----	-----
Nonlocality	149.3	126.1
Unholy Fire	145.8	131.0
Flamewraith	144.4	129.6
128_48.red	143.7	137.3
b69e6908-a5be0bba-ab4445f	133.8	144.4
[RS] Existephall Apris	124.6	124.6
[RS] Nextratulated Sturvi	121.1	165.5
Transfer Function	118.3	164.8
Cold Plasma	116.2	128.9
Combat Arithmetic	114.8	167.6
145_13.red	112.0	166.9
Nonlocality 2	109.2	162.0
8c09fc1a-4799259f-1747246	106.3	176.1
032_42.red	105.6	175.4
Pacler Deux	104.2	159.2
Diffraction Limit S5	99.3	183.8
14_12.red	97.2	188.0
Quantum Foam	91.5	195.1

# John Metcalf – Glitch//CORE – Execution Trace

```

0|##### | spl.b # 0 , > 73
1|!##### | mov.i } 79 , } 1
2|@.+# # X + | spl.b # 1 , > 73
3|!.@## X + | spl.b { 45 , > 53
4|!@.## !- + | mov.i } 79 , } 1
5|@.+# !X + + | spl.b # 2 , > 73
6|!.+@# !X + + | mov.i @ 60 , { 26
7|!.+.# X- @X + + | spl.b # 0 , > 73
8|!@.# X- + !X + + | spl.b { 46 , > 53
9|!@.# X- + !- + + | mov.i } 79 , } 1
10|@.+.# X- + !!X + + | spl.b # 3 , > 73
11|!.+@ X- + !!X + + | djn.f $ 79 , { 64
12|!.+.. X- + !@X + -- + | mov.i } 79 , } 1
13|!.+.. X X- + @.+ + -- + | spl.b # 1 , > 73
14|!.+@. X X- + !.+ + -- + | mov.i @ 60 , { 26
15|!.+.. X XX- + !+ + -- + | mov.i } 79 , } 1
16|!@.# XX XX- + +. + -- + | spl.b { 47 , > 53
17|!@... XX XX- + +.- + -- + | mov.i } 79 , } 1
18|@.+. XX XX- + +.!X + -- + | spl.b # 4 , > 73
19|!.+@. XX !X XX- + +.!X + -- + | mov.i @ 60 , { 26
20|!.+.. XX XXX- + +.@X + -- + | spl.b { 48 , > 53
21|!.+.. X!- + XXX- + +@.X + -- + | mov.i } 79 , } 1
22|!.+.. X!X + XXX- + @.+X + -- + | spl.b # 3 , > 73
23|!.+@ X!X + XXX- + !.+X + -- + | djn.f $ 79 , { 64
24|!.+.. X!X + XXX- + !.@X + --- + | spl.b { 49 , > 53
25|!.+@. X!!- + XXX- + !..X + --- + | mov.i @ 60 , { 26
26|!.+.. X!!- + XXXX- + !.@X + --- + | spl.b { 49 , > 53
27|!@.# X!!- + XXXX- + !..X + --- + | spl.b { 48 , > 53
28|!@... X!!- + XXXX- + !!!- + --- + | mov.i } 79 , } 1
29|@.+. X!!- + XXXX- + !!!X + --- + | spl.b # 5 , > 73
30|!.+@ X!!- + XXXX- + !!!X + --- + | djn.f $ 79 , { 64
31|!.+.. X!!- + XXXX- + !..@X + ---- + | mov.i @ 60 , { 26
32|!.+.. X@!- + XXXX- + !..X + ---- +X- | mov.i } 79 , } 1
33|!.+.. +.+ + XXXX- + !.@.X + X----+X- | spl.b { 49 , > 53
34|!.+.. !.+ + XXXX- + !.@.X + X----+X- | mov.i } 79 , } 1
35|!.+.. !.+X + XXXX- + @.+X + X----+X- | spl.b # 4 , > 73
36|!.+@. !.+X + XXXX- + !.+X + X----+X- | mov.i @ 60 , { 26
37|!.+.. !.+X + XXXXX- + !.+@X + X----+X- | mov.i @ 60 , { 26
38|!.+.. !.@X + XXXXX- + !.+X + X---- XX- | spl.b { 49 , > 53
39|!.+@ !..X + XXXXX- + !.+X + !X----+ XX- | djn.f $ 79 , { 64
40|!.+.. !..X + XXXXX- + !.+@X + !-----+ XX- | mov.i @ 60 , { 26

```

# John Metcalf – rogue[AI]

NE 160.6, ZDNE 153.3

				vs. rogue[AI]	Score	Given
				-----	-----	-----
;redcode-nano				b69e6908-a5be0bba-ab4445f	158.5	131.0
;name rogue[AI]				[RS] Nextratulated Sturvi	155.6	140.8
;author John Metcalf				Combat Arithmetic	155.6	138.7
;strategy clear				Pacler Deux	146.5	144.4
;assert CORESIZE==80				Transfer Function	143.0	155.6
	dist	equ 23		[RS] Existephall Apris	142.3	135.9
	spl	#-36,	>13	032_42.red	140.8	145.1
	mov	{0,	>-33	8c09fc1a-4799259f-1747246	140.1	154.9
clear	mov	<dist,	{-2	145_13.red	138.7	157.7
	mov	{clear,	<-dist	Diffraction Limit S5	138.0	157.0
	djn.f	clear,	< -8	Cold Plasma	131.7	152.8
				Quantum Foam	130.3	166.2
				Flamewraith	126.8	160.6
				Nonlocality 2	121.8	170.4
				128_48.red	121.1	176.1
				Nonlocality	120.4	171.1
				14_12.red	105.6	190.1
				Unholy Fire	103.5	190.1

# John Metcalf – rogue[AI] – Execution Trace

```

0|##### | spl.b # 44, > 13
1|!##### + | mov.i { 0, > 47
2|@-### + | spl.b # 44, > 13
3|!-@## + | mov.i < 23, { 78
4|-@.## + - | mov.i { 79, > 47
5|@.## + - | spl.b # 42, > 13
6|!..@# + - | mov.i { 79, < 57
7|!.@.# + - | mov.i < 22, { 78
8|-@..# + -- | mov.i { 79, > 47
9|@..## + -- | spl.b # 40, > 13
10|!...@ + - | djn.f $ 78, < 72
11|!..@. + -- | mov.i { 79, < 57
12|!.@.. + -- | mov.i < 21, { 78
13|-@... + --- | mov.i { 79, > 47
14|@.... + --- | spl.b # 38, > 13
15|!.@.. + --- | mov.i < 21, { 78
16|-...@ + --- | djn.f $ 78, < 72
17|-..@. + --- | mov.i { 79, < 57
18|-@.. + --- | mov.i < 20, { 78
19|-@... + --- | mov.i { 79, > 47
20|@.... + --- | spl.b # 35, > 13
21|!..@. + --- | mov.i { 79, < 57
22|!.@.. + --- | mov.i < 19, { 78
23|-...@ + --- | djn.f $ 78, < 72
24|-..@. + --- | mov.i { 79, < 57
25|-@.. + --- | mov.i < 18, { 78
26|-@... + --- | mov.i { 79, > 47
27|@.... + --- | spl.b # 32, > 13
28|!...@ + --- | djn.f $ 78, < 72
29|!..@. + --- | mov.i { 79, < 57
30|!.@.. + --- | mov.i < 17, { 78
31|-...@ + --- | djn.f $ 78, < 72
32|-..@. + --- | mov.i { 79, < 57
33|-@.. + --- | mov.i < 16, { 78
34|-@... + --- | mov.i { 79, > 47
35|@.... + --- | spl.b # 29, > 13
36|!.@.. + --- | mov.i < 16, { 78
37|-...@ + --- | djn.f $ 78, < 72
38|-..@. + --- | mov.i { 79, < 57
39|-@.. + --- | mov.i < 15, { 78
40|-...@ + --- | djn.f $ 78, < 72

```



# Dave Hillis – rdrc: Smitten Atrocity

NE 148.2, ZDNE 147.4

```
;redcode-nano
;assert CORESIZE == 80
;name rdrc: Smitten Atrocity
;author Dave Hillis
;strategy - Created using RedRace.c.
;strategy - An evolving population playing KOTH.
spl.b # -6, { -27
mov.i < 21, { -1
mov.i { -2, { -29
mov.i { -2, { 29
djn.f $ -3, $ 28
end 0
```

vs. rdrc: Smitten Atrocity	Score	Given
-----	-----	-----
Cold Plasma	169.0	116.2
Combat Arithmetic	168.3	128.2
Transfer Function	160.6	133.1
b69e6908-a5be0bba-ab4445f	159.9	134.5
Diffraction Limit S5	155.6	140.8
8c09fc1a-4799259f-1747246	148.6	146.5
[RS] Existephall Apris	148.6	129.6
032_42.red	148.6	146.5
Nonlocality	147.2	143.0
145_13.red	145.1	151.4
Nonlocality 2	139.4	147.9
Pacler Deux	137.3	145.8
Quantum Foam	136.6	159.9
Flamewraith	135.9	154.9
14_12.red	135.2	162.7
[RS] Nextratulated Sturvi	129.6	167.6
128_48.red	124.6	173.2
Unholy Fire	121.1	169.7

# Dave Hillis – rdrc: Smitten Atrocity – Execution Trace

```

0|##### | spl.b # 74, { 53
1|!##### | mov.i < 21, { 79
2|@.### - - X | spl.b # 73, { 53
3|!.@## - - X | mov.i { 78, { 51
4|-@.## - - X | mov.i < 21, { 79
5|@.## - - X - X X | spl.b # 71, { 53
6|!..@# - - X - X X | mov.i { 78, { 29
7|!-@.# - - X- X - X X | mov.i { 78, { 51
8|-@..# - - X- X X - X X | mov.i < 20, { 79
9|@...# -- X- X X - X X X | spl.b # 69, { 53
10|!...@ -- X- X X - X X X | djn.f $ 77, $ 28
11|!..@. -- X- X X - X X X | mov.i { 78, { 29
12|!-@.. -- X X- X X - X X X | mov.i { 78, { 51
13|-@... -- X X- X X X - X X X | mov.i < 19, { 79
14|@.... --- X X- X X X - X X X X | spl.b # 67, { 53
15|!@... --- X X- X X X - X X X X | mov.i < 19, { 79
16|-...@ --- X X- X X X - XX X X X | djn.f $ 77, $ 28
17|..@. --- X X- X X X - XX X X X | mov.i { 78, { 29
18|--@.. --- X X X- X X X - XX X X X | mov.i { 78, { 51
19|-@... --- X X X- X X X X - XX X X X | mov.i < 18, { 79
20|@.... ---- X X X- X X X X - X XX X X X | spl.b # 64, { 53
21|!@... ---- X X X- X X X X - X XX X X X | mov.i { 78, { 51
22|-@... ---- X X X- X X X X - X XX X X X | mov.i < 18, { 79
23|-...@ ---- X X X- X X X X X - X X XX X X X | djn.f $ 77, $ 28
24|..@. ---- X X X- X X X X - X X XX X X X | mov.i { 78, { 29
25|--@.. ---- X X X X- X X X X - X X XX X X X | mov.i { 78, { 51
26|@... ---- X X X X- XX X X X X - X X XX X X X | mov.i < 17, { 79
27|@.... ---- X X X X- XX X X X X - X X X XX X X X | spl.b # 60, { 53
28|!..@. ---- X X X X- XX X X X X - X X X XX X X X | mov.i { 78, { 29
29|!-@.. ---- XX X X X- XX X X X X - X X X XX X X X | mov.i { 78, { 51
30|-@... ---- XX X X X- X XX X X X X - X X X XX X X X | mov.i < 16, { 79
31|-...@ ---- XX X X X- X XX X X X X - X X X X XX X X X | djn.f $ 77, $ 28
32|..@. ---- XX X X X- X XX X X X X - X X X X XX X X X | mov.i { 78, { 29
33|--@.. ---- X XX X X X- X XX X X X X - X X X X XX X X X | mov.i { 78, { 51
34|-@... ---- X XX X X X- XX XX X X X X - X X X X XX X X X | mov.i < 15, { 79
35|@.... ---- X XX X X X- XX XX X X X X - X X X X X XX X X X | spl.b # 56, { 53
36|!...@ ---- X XX X X X- XX XX X X X X - X X X X X XX X X X | djn.f $ 77, $ 28
37|!..@. ---- X XX X X X- XX XX X X X X - X X X X X XX X X X | mov.i { 78, { 29
38|!-@.. ---- X-X XX X X X- XX XX X X X X - X X X X X XX X X X | mov.i { 78, { 51
39|-@... ---- X-X XX X X X- X XX XX X X X X - X X X X X XX X X X | mov.i < 14, { 79
40|-...@ ---- X-X XX X X X- X XX XX X X X X -X X X X X X XX X X X | djn.f $ 77, $ 28

```

# Dave Hillis – rdrc: Sawtooth Grindstone

NE 146.1, ZDNE 144.7

```
;redcode-nano
;assert CORESIZE == 80
;name rdrc: Sawtooth Grindstone
;author Dave Hillis
;strategy - Created using RedRace.c.
;strategy - An evolving population playing KOTH.
spl.b # -1, < -25
mov.i # 38, < 1
mov.i > 8, { 36
mov.i > -22, < -28
djn.f $ -3, < 40
end 0
```

vs. rdrc: Sawtooth Grinds	Score	Given
-----	-----	-----
Transfer Function	171.1	118.3
Diffraction Limit S5	157.0	138.0
Quantum Foam	156.3	139.4
032_42.red	155.6	136.6
[RS] Nextratulated Sturvi	147.9	147.9
14_12.red	145.8	147.9
Nonlocality 2	145.1	140.8
145_13.red	144.4	150.7
Unholy Fire	143.7	145.8
Nonlocality	140.8	140.8
128_48.red	140.1	154.9
Flamewraith	138.0	142.3
b69e6908-a5be0bba-ab4445f	138.0	152.8
Cold Plasma	135.2	147.9
Pacler Deux	132.4	149.3
[RS] Existephall Apris	130.3	153.5
8c09fc1a-4799259f-1747246	129.6	161.3
Combat Arithmetic	126.1	168.3

# Dave Hillis – rdrc: Sawtooth Grindstone – Execution Trace

```

0|##### | spl.b # 79, < 55
1|!##### | mov.i # 38, < 1
2|@.-## X | spl.b # 79, < 55
3|!.@## X | mov.i > 8, { 35
4|!@.## + | mov.i # 38, < 1
5|@.-## + X- | spl.b # 79, < 55
6|!.-@# + X- | mov.i > 58, < 52
7|!.@.# + X- X | mov.i > 8, { 34
8|!@..# + -- X - + XX | mov.i # 38, < 1
9|@.-.# + X-- X - + XX | spl.b # 79, < 55
10|!.-.@ + X-- X - + XX | djn.f $ 77, < 40
11|!.-@. + X-- -- X - + XX | mov.i > 58, < 52
12|!@... + X-- -- X X - + XX | mov.i > 8, { 33
13|!@... + --- -- X X - + XXX | mov.i # 38, < 1
14|@.-.. + X--- -- X X - + XXX | spl.b # 79, < 55
15|!@.-. + X--- -- X X - + XXX | mov.i # 38, < 1
16|!.-.@ + XX--- -- X X - + XXX | djn.f $ 77, < 40
17|!.-@. + XX--- --- X X - + XXX | mov.i > 58, < 52
18|!@... + XX--- --- X X X - + XXX | mov.i > 8, { 31
19|!@... + -X--- --- X X X - + X XXX | mov.i # 38, < 1
20|@.-.. + X-X--- --- X X X - + X XXX | spl.b # 79, < 55
21|!@... + X-X--- --- X X X - + X XXX | mov.i > 8, { 30
22|!@... + --X--- --- X X X - + XX XXX | mov.i # 38, < 1
23|!.-.@ + X--X--- --- X X X - + XX XXX | djn.f $ 77, < 40
24|!.-@. + X--X--- --- X X X - + XX XXX | mov.i > 58, < 52
25|!@... + X--X--- ---X X X X - + XX XXX | mov.i > 8, { 29
26|!@... + --X--- ---X X X X - + XXX XXX | mov.i # 38, < 1
27|@.-.. + X---X--- ---X X X X - + XXX XXX | spl.b # 79, < 55
28|!.-@. + X---X--- ---X X X X - + XXX XXX | mov.i > 58, < 52
29|!@... + X---X--- --X-X X X X - + XXX XXX | mov.i > 8, { 28
30|!@... + ---X--- --X-X X X X - + XXXX XXX | mov.i # 38, < 1
31|!.-.@ + X---X--- --X-X X X X - + XXXX XXX | djn.f $ 77, < 40
32|!.-@. + X---X--- --X-X X X X - + XXXX XXX | mov.i > 58, < 52
33|!@... + X---X--- --XX-X X X X - + XXXX XXX | mov.i > 8, { 27
34|!@... + ---X--- --XX-X X X X - + XXXXX XXX | mov.i # 38, < 1
35|@.-.. + X-----X--- --XX-X X X X - + XXXXX XXX | spl.b # 79, < 55
36|!.-.@ + X-----X--- --XX-X X X X - + XXXXX XXX | djn.f $ 77, < 40
37|!.-@. + X-----X--- ---XX-X X X X - + XXXXX XXX | mov.i > 58, < 52
38|!@... + X-----X--- -X-XX-X X X X - + XXXXX XXX | mov.i > 8, { 26
39|!@... + -----X--- -X-XX-X X X X - + XXXXX XXX | mov.i # 38, < 1
40|!.-.@ + X-----X--- -X-XX-X X X X - + XXXXX XXX | djn.f $ 77, < 40

```



# Simon Wainwright – Ultimate Balrog

NE 154.5, ZDNE 148.1

```
;redcode-nano
;assert 1
;author Simon Wainwright
;name Ultimate Balrog
;strategy seed YACE soup with the bench warriors
;strategy then run brute force on the output
;origin 14_12.red
```

```
mov.i {      76, $      48
spl.a #      44, }      71
mov.i <      19, {      79
mov.i {      79, <      78
djn.i $      78, @      78
end 0
```

vs. Ultimate Balrog	Score	Given
-----	-----	-----
Diffraction Limit S5	183.8	109.9
b69e6908-a5be0bba-ab4445f	163.4	129.6
[RS] Nextratulated Sturvi	163.4	135.9
Combat Arithmetic	154.2	143.7
032_42.red	148.6	146.5
128_48.red	144.4	152.8
145_13.red	143.0	155.6
Quantum Foam	142.3	152.8
Nonlocality	140.8	140.8
Cold Plasma	136.6	147.2
Flamewraith	136.6	151.4
Unholy Fire	135.2	152.1
[RS] Existephall Apris	133.1	152.1
14_12.red	126.1	172.5
Transfer Function	124.6	171.1
8c09fc1a-4799259f-1747246	123.2	173.9
Pacler Deux	120.4	164.8
Nonlocality 2	104.2	178.2



# Simon Wainwright – Voodoo Curse

NE 154.6, ZDNE 148.3

			vs. Voodoo Curse	Score	Given
			-----	-----	-----
;redcode-nano			Flamewraith	180.3	108.5
;assert 1			Diffraction Limit S5	174.6	121.8
;author Simon Wainwright			Nonlocality	174.6	111.3
;name Voodoo Curse			Cold Plasma	170.4	113.4
;strategy quick scan run through YACE then brute forced			Nonlocality 2	168.3	111.3
;origin bifurcation.red			[RS] Nextratulated Sturvi	166.9	131.0
seq.i \$ 26, \$ 21			[RS] Existephall Apris	164.1	115.5
add.x # 42, # 55			Pacler Deux	157.7	128.2
spl.b # 53, { 1			Unholy Fire	155.6	126.1
mov.i } 35, } 78			Transfer Function	154.2	141.5
djn.f \$ 79, } 77			Combat Arithmetic	154.2	137.3
end 0			Quantum Foam	135.2	158.5
			8c09fc1a-4799259f-1747246	133.1	162.7
			128_48.red	126.8	162.7
			145_13.red	123.2	159.2
			032_42.red	102.1	193.0
			14_12.red	85.9	208.5
			b69e6908-a5be0bba-ab4445f	77.5	216.9



NE 163.4, ZDNE 152.1

```
;redcode-nano
;name 9dc398e6-3534c074-784d693e.rc
;author bvowk
;assert 1
```

```
ORG          START
START SPL.BA #   32, >   17
      SPL.AB #   22, >  -24
      MOV.I  #    3, }   38
      SPL.AB $   40, }   12
      MOV.I  >   25, >  -27
```

vs. bvowk_9dc.rc	Score	Given
-----	-----	-----
Cold Plasma	138.0	106.3
145_13.red	138.0	148.6
8c09fc1a-4799259f-1747246	131.7	157.0
Nonlocality	131.7	97.9
[RS] Existephall Apris	125.4	112.7
[RS] Nextratulated Sturvi	122.5	156.3
Diffraction Limit S5	119.7	174.6
Nonlocality 2	116.9	112.7
128_48.red	113.4	166.2
Unholy Fire	112.7	110.6
Pacler Deux	112.0	109.9
Transfer Function	109.2	159.9
b69e6908-a5be0bba-ab4445f	107.7	162.7
Flamewraith	103.5	114.1
Quantum Foam	86.6	192.3
032_42.red	81.0	197.2
Combat Arithmetic	79.6	212.7
14_12.red	78.2	202.8

# bwowk – 9dc398e6-3534c074-784d693e.rc – Execution Trace

0 #####						spl.ba #	32 ,	>	17
1 !#####	+					spl.ab #	22 ,	>	56
2 !#####	+					spl.ba #	32 ,	>	17
3 !#####	+					mov.i #	3 ,	}	38
4 !@.##	+		X			spl.ab #	22 ,	>	56
5 !@.##	+		X			spl.ab #	22 ,	>	56
6 !@.##	+		X			spl.ba #	32 ,	>	17
7 !!.@#	+		X			spl.ab \$	40 ,	}	12
8 !!.@.#	++		X !			mov.i #	3 ,	}	38
9 !!.@.#	++		+ X			spl.ab #	22 ,	>	56
10 !!.@.#	++		+ X			mov.i #	3 ,	}	38
11 !!.@.#	++		+ XX			spl.ab #	22 ,	>	56
12 !!.@.#	++		+ XX			spl.ab #	22 ,	>	56
13 !!.@.#	++		+ XX			spl.ba #	32 ,	>	17
14 !!.@.#	++		+ XX			mov.i >	25 ,	>	53
15 !!.@.#	++		+ @X		X	mov.i #	3 ,	}	38
16 !+.@.	++	X	+ .X		X	spl.ab \$	40 ,	}	12
17 !+.@.	++	X	+ !X		X	mov.i #	3 ,	}	38
18 !+.@.	++	X	+ !XX		X	spl.ab #	23 ,	>	56
19 !!.@.	++	X	+ !XX		X	spl.ab \$	40 ,	}	12
20 !!.@.	++	X	+ !XX		X	mov.i #	3 ,	}	38
21 !!.@.	++	X	+ !XXX		X	spl.ab #	23 ,	>	56
22 !!.@.	++	X	+ !XXX		X	mov.i #	3 ,	}	38
23 !!.@.	++	X	+ !XXXX		X	spl.ab #	23 ,	>	56
24 !!.@.	++	X	+ !XXXX		X	spl.ab #	23 ,	>	56
25 !!.@.	++	X	+ !XXXX		X	spl.ba #	32 ,	>	17
26 !!.@.	++	X	+ !XXXX		X	dat.f \$	0 ,	\$	0
27 !!.@.	++	X	+ !@XXX		X	mov.i #	3 ,	}	38
28 !!.@.	++	X	+ !.XXX		X	mov.i >	25 ,	>	53
29 !!.@.	++	X	+ @.XXX		X	mov.i #	3 ,	}	38
30 !!.@.	++	XX	+ ..XXX		X	spl.ab \$	40 ,	}	12
31 !!.@.	++	XX	+ !.XXX		X	mov.i #	4 ,	}	38
32 !!.@.	++	XX	+ !.XXXX		X	spl.ab #	24 ,	>	56
33 !!.@.	++	XX	+ !.XXXX		X	mov.i >	25 ,	>	53
34 !!.@.	++	XX	+ @.XXXX		X	mov.i #	3 ,	}	38
35 !!.@.	++	XXX	+ ..XXXX		X	spl.ab \$	40 ,	}	12
36 !!.@.	++	XXX	+ !.XXXX		X	mov.i #	4 ,	}	38
37 !!.@.	++	XXX	+ !.XXXXX		X	spl.ab #	25 ,	>	56
38 !!.@.	++	XXX	+ !.XXXXX		X	spl.ab \$	40 ,	}	12
39 !!.@.	++	XXX	+ !.XXXXX		X	mov.i #	4 ,	}	38
40 !!.@.	++	XXX	+ !.XXXXXX		X	spl.ab #	25 ,	>	56



NE 162.1, ZDNE 150.1

```
;redcode-nano
;name 6b790897-f7e68574-324ebd10.rc
;author bvowk
;assert 1
```

```

      ORG      START
START MOV.I   <   22, $   -22
      SPL.I   #    20, >   37
      SPL.F   $   -39, >   13
      MOV.I   #     2, }   40
      MOV.I   #    15, }   40
```

vs. bvowk_6b7.rc	Score	Given
-----	-----	-----
145_13.red	163.4	127.5
Cold Plasma	157.7	102.8
8c09fc1a-4799259f-1747246	152.8	140.1
[RS] Existephall Apris	140.8	104.9
Nonlocality	140.1	95.8
b69e6908-a5be0bba-ab4445f	133.1	135.2
Unholy Fire	126.8	101.4
[RS] Nextratulated Sturvi	119.7	166.2
Quantum Foam	113.4	174.6
Diffraction Limit S5	112.7	178.2
Nonlocality 2	104.2	127.5
Pacler Deux	103.5	114.1
Flamewraith	95.8	131.7
128_48.red	95.8	180.3
032_42.red	94.4	191.5
Combat Arithmetic	91.5	203.5
Transfer Function	91.5	169.7
14_12.red	79.6	206.3

# bvowk – 6b790897-f7e68574-324ebd10.rc – Execution Trace

0 #####					mov.i <	22 , \$	58
1 .#####	-			X	spl.i #	20 , >	37
2 .!.#####	-		+	X	spl.f \$	41 , >	13
3 .!.#####	+	-	+	!	spl.i #	20 , >	37
4 .!.!.#####	+	-	+	!	mov.i #	2 , }	40
5 .!.!.!.#####	+	-	+	@	mov.i #	2 , }	40
6 .!.!.!@+X	+	-	+	.	spl.f \$	41 , >	13
7 .!.!.!@+X	+	-	+	!	spl.i #	20 , >	37
8 .!.!.!.+@X	+	-	+	!	mov.i #	15 , }	40
9 .!.!.!.+.X	+	-	+	!@	mov.i #	15 , }	40
10 .!.!.!.@+X	+	X	-	!	mov.i #	3 , }	40
11 .!.!.!.+X	+	X	-	@.X	mov.i #	3 , }	40
12 .!.!.!@+XX	+	X	-	..X	spl.f \$	41 , >	13
13 .!.!.!@+XX	+	X	-	!.X	spl.i #	20 , >	37
14 .!.!.!.+@X	+	X	-	!.X	mov.i #	2 , }	40
15 .!.!.!.+.X	+	X	-	!.@ X	mov.i #	4 , }	40
16 .!.!.!.+@+XX	+	X	-	!.. X	mov.i #	16 , }	40
17 .!.!.!.+X	+	X	-	!@. X	mov.i #	16 , }	40
18 .!.!.!@+XX	+	XX	-	!.. X	mov.i #	4 , }	40
19 .!.!.!.+@+XX	+	XX	-	@..X X	mov.i #	4 , }	40
20 .!.!.!@+@+XX	+	XX	-	...X X	spl.f \$	41 , >	13
21 .!.!.!@+@+XX	+	XX	-	!..X X	spl.i #	20 , >	37
22 .!.!.!.+@+@X	+	XX	-	!..X X	mov.i #	3 , }	40
23 .!.!.!.+.X	+	XX	-	!..@ X X	mov.i #	5 , }	40
24 .!.!.!.+@+X X	+	XX	-	!.. X X	mov.i #	3 , }	40
25 .!.!.!.+.X X	+	XX	-	!@. XXX	mov.i #	5 , }	40
26 .!.!.!@+XXX	+	XX	-	!.. XXX	mov.i #	17 , }	40
27 .!.!.!.+XXX	+	XX	-	!@. XXX	mov.i #	17 , }	40
28 .!.!.!@+XXX	+	XXX-	-	!.. XXX	mov.i #	5 , }	40
29 .!.!.!.+XXX	+	XXX-	-	@...XXXX	mov.i #	5 , }	40
30 .!.!.!@+XXX	+	XXX-	-	...XXXX	spl.f \$	41 , >	13
31 .!.!.!@+XXX	+	XXX-	-	!..XXXX	spl.i #	20 , >	37
32 .!.!.!.+@+@X	+	XXX-	-	!..XXXX	mov.i #	4 , }	40
33 .!.!.!.+.X	+	XXX-	-	!..@XXX X	mov.i #	6 , }	40
34 .!.!.!.+@+@+X X	+	XXX-	-	!.. XXX X	mov.i #	4 , }	40
35 .!.!.!.+.X X	+	XXX-	-	!..@.XXXX	mov.i #	6 , }	40
36 .!.!.!.+@+XXXX	+	XXX-	-	!...XXXX	mov.i #	4 , }	40
37 .!.!.!.+.X	+	XXX-	-	!@. XXXX	mov.i #	6 , }	40
38 .!.!.!@+XXXX	+	XXX-	-	!...XXXX	mov.i #	18 , }	40
39 .!.!.!.+@+XXXX	+	XXX-	-	!@...XXXX	mov.i #	18 , }	40
40 .!.!.!@+@+XXXX	+	XXXX	-	!...XXXX	mov.i #	6 , }	40

# Roy van Rijn – Nashville Tennessee

NE 161.2, ZDNE 151.1

	vs. Nashville Tennessee	Score	Given
	-----	-----	-----
;redcode-nano	128_48.red	155.6	136.6
;name Nashville Tennessee	Combat Arithmetic	140.8	145.1
;author Roy van Rijn	145_13.red	137.3	150.0
;strategy Optimized for NE against benchmark: 161.16204225352115	b69e6908-a5be0bba-ab4445f	135.2	133.1
;strategy private benchmark: 173.15817984832069	[RS] Existephall Apris	135.2	107.7
;assert 1	Quantum Foam	133.1	154.2
START spl.f #0 , >37 ;0	Cold Plasma	122.5	126.8
mov.i }79 , }1 ;1	Nonlocality	121.8	151.4
spl.f <58 , >29 ;2	Flamewraith	121.8	153.5
mov.i *55 , {72 ;3	8c09fc1a-4799259f-1747246	121.1	167.6
djn.i \$79 , {47 ;4	[RS] Nextratulated Sturvi	120.4	166.9
end	14_12.red	112.0	175.4
	Unholy Fire	110.6	163.4
	032_42.red	109.9	179.6
	Nonlocality 2	106.3	167.6
	Pacler Deux	103.5	166.9
	Diffraction Limit S5	95.8	186.6
	Transfer Function	93.0	185.9

# Roy van Rijn – Nashville Tennessee – Execution Trace

```

0|##### | spl.f # 0 , > 37
1|!##### + | mov.i } 79 , } 1
2|@.+# + | spl.f # 1 , > 37
3|!.## + | spl.f < 59 , > 29
4|!@.## + + | mov.i } 79 , } 1
5|@.+# + + | spl.f # 2 , > 37
6|!.+@ + + | mov.i * 55 , { 72
7|!.+.# + + | spl.f # 0 , > 37
8|!@.# + + + | !X X- | spl.f < 60 , > 29
9|!@.# + + + | !!- X- | mov.i } 79 , } 1
10|@.+.# + + + | !!X X- | spl.f # 3 , > 37
11|!.+@ + + + | !!X X- | djn.i $ 79 , { 47
12|!.+ + + + | !@X X- | mov.i } 79 , } 1
13|!.+ + + + X -- | @.+ X- | spl.f # 1 , > 37
14|!.+@ + + + X -- | !.+ X- | mov.i * 55 , { 72
15|!.+ + + + X -- | !@+ XX- | mov.i } 79 , } 1
16|!@.# + + + XX -- | +.+ XX- | spl.f < 61 , > 29
17|!@... + + + XX -- | +.!- XX- | mov.i } 79 , } 1
18|@.+. + + + XX -- | +.!X XX- | spl.f # 4 , > 37
19|!.+@ + + + XX -- | +.!X XX- | mov.i * 55 , { 72
20|!.+ + + + XX -- | +.@X XXX- | spl.f < 62 , > 29
21|!.+ + + + X!- -- | +@.X XXX- | mov.i } 79 , } 1
22|!.+ + + + X!X -- | @.+X XXX- | spl.f # 3 , > 37
23|!.+@ + + + X!X -- | !.+X XXX- | djn.i $ 79 , { 47
24|!.+ + + + X!X --- | !.@X XXX- | spl.f < 63 , > 29
25|!.+@ + + + X!!- --- | !..X XXX- | mov.i * 55 , { 72
26|!.+ + + + X!!- --- | !.@X XXXX- | spl.f < 63 , > 29
27|!@.# + + + X!!- --- | !..X XXXX- | spl.f < 62 , > 29
28|!@... + + + X!!- --- | !!!- XXXX- | mov.i } 79 , } 1
29|@.+. + + + X!!- --- | !!!X XXXX- | spl.f # 5 , > 37
30|!.+@ + + + X!!- --- | !!!X XXXX- | djn.i $ 79 , { 47
31|!.+ + + + X!!- ---- | !..@X XXXX- | mov.i * 55 , { 72
32|!.+ + + + X@!- ---- X- | ...X XXXX- | mov.i } 79 , } 1
33|!.+ + + + +.+ - ---- X- | !.@.X XXXX- | spl.f < 63 , > 29
34|!.+ + + + X + + | !.+ - ---- X- | !@..X XXXX- | mov.i } 79 , } 1
35|!.+ + + + X + + | !.+X - ---- X- | @.+X XXXX- | spl.f # 4 , > 37
36|!.+@ + + + X + + | !.+X - ---- X- | !.+X XXXX- | mov.i * 55 , { 72
37|!.+ + + + X + + | !.+X - ---- X- | !.@X XXXXX- | mov.i * 55 , { 72
38|!.+ + + + X + + | !.@X - ---- XX- | !.+X XXXXX- | spl.f < 63 , > 29
39|!.+@ + + + !- + + | !..X - ---- XX- | !.+X XXX+X- | djn.i $ 79 , { 47
40|!.+ + + + !- + + | !..X - ---- XX- | !.@X XXX+X- | mov.i * 55 , { 72

```



# Roy van Rijn – Forbes

NE 168.3, ZDNE 160.9

```
;redcode-nano
;name Forbes
;author Roy van Rijn
;strategy NE against benchmark: 168.3406338028169
;strategy private benchmark: 173.71851300108344
;assert 1
```

```
START   spl.b   #42 , >49   ;0
        mov.i   {0 , >45   ;1
        mov.i   <65 , {78   ;2
        mov.i   }79 , <60   ;3
        djn.i   $78 , <59   ;4
END START
```

vs. Forbes	Score	Given
-----	-----	-----
Transfer Function	151.4	140.8
145_13.red	143.7	150.0
Unholy Fire	143.0	153.5
032_42.red	142.3	146.5
Pacler Deux	141.5	145.8
Nonlocality	138.7	153.5
b69e6908-a5be0bba-ab4445f	135.2	154.2
Diffraction Limit S5	130.3	164.1
[RS] Existephall Apris	128.9	150.0
Flamewraith	126.1	162.0
Cold Plasma	125.4	152.8
Nonlocality 2	125.4	163.4
8c09fc1a-4799259f-1747246	118.3	177.5
[RS] Nextratulated Sturvi	112.0	185.9
Combat Arithmetic	109.9	183.8
128_48.red	109.2	187.3
14_12.red	107.7	188.0
Quantum Foam	100.0	195.1

# Roy van Rijn – Forbes – Execution Trace

0 #####						spl.b #	42,	>	49
1 !#####						mov.i {	0,	>	45
2 @-###			X	+		spl.b #	42,	>	49
3 !-@##			X	+		mov.i <	65,	{	78
4 !-@.##			X	+		mov.i {	79,	>	45
5 @..##	X		X	+	+	spl.b #	40,	>	49
6 !..@#	X		X	+	+	mov.i }	79,	<	60
7 !..@.#	X		X	+	+	mov.i <	66,	{	78
8 !-@..#	X		X X	+	+	mov.i {	79,	>	45
9 @..##	XX		X X	+	+	spl.b #	38,	>	49
10 !...@	XX		X X	+	+	djn.i \$	78,	<	59
11 !..@.	XX		X X	+	+	mov.i }	79,	<	60
12 !..@..	XX		X X	+	+	mov.i <	67,	{	78
13 !-@...	XX		X X X	+	+	mov.i {	79,	>	45
14 @....	XXX		X X X	+	+	spl.b #	36,	>	49
15 !..@.	XXX		X X X	+	+	mov.i <	67,	{	78
16 !...@	XXX		X X X X	+	+	djn.i \$	78,	<	59
17 !..@.	XXX		X X X X	+	+	mov.i }	79,	<	60
18 !-@..	XXX		X X X X	+	+	mov.i <	68,	{	78
19 !-@...	XXX		XX X X X	+	+	mov.i {	79,	>	45
20 @....	XXXX		XX X X X	+	+	spl.b #	33,	>	49
21 !..@.	XXXX		XX X X X	+	+	mov.i }	79,	<	60
22 !..@..	XXXX		XX X X X	+	+	mov.i <	69,	{	78
23 !...@	XXXX		X XX X X X	+	+	djn.i \$	78,	<	59
24 !..@.	XXXX		X XX X X X	+	+	mov.i }	79,	<	60
25 !-@..	XXXX		X XX X X X	+	+	mov.i <	70,	{	78
26 !-@...	XXXX		XX XX X X X	+	+	mov.i {	79,	>	45
27 @....	XXXXX		XX XX X X X	+	+	spl.b #	30,	>	49
28 !...@	XXXXX		XX XX X X X	+	+	djn.i \$	78,	<	59
29 !..@.	XXXXX		XX XX X X X	+	+	mov.i }	79,	<	60
30 !..@..	XXXXX		XX XX X X X	+	+	mov.i <	71,	{	78
31 !...@	XXXXX		X XX XX X X X	+	+	djn.i \$	78,	<	59
32 !..@.	XXXXX		X XX XX X X X	+	+	mov.i }	79,	<	60
33 !-@..	XXXXX		X XX XX X X X	+	+	mov.i <	72,	{	78
34 !-@...	XXXXX		XX XX XX X X X	+	+	mov.i {	79,	>	45
35 @....	XXXXXX		XX XX XX X X X	+	+	spl.b #	27,	>	49
36 !..@.	XXXXXX		XX XX XX X X X	+	+	mov.i <	72,	{	78
37 !...@	XXXXXX	X	XX XX XX X X X	+	+	djn.i \$	78,	<	59
38 !..@.	XXXXXX	X	XX XX XX X X X	+	+	mov.i }	79,	<	60
39 !-@..	XXXXXX	X	XX XX XX X X X	+	+	mov.i <	73,	{	78
40 !...@	XXXXXX	XX	XX XX XX X X X	+	+	djn.i \$	78,	<	59

# inversed – Reptiloid Conspiracy

NE 151.2, ZDNE 154.4

	vs. Reptiloid Conspiracy	Score	Given
	-----	-----	-----
;redcode-nano	Transfer Function	173.9	119.0
;name Reptiloid Conspiracy	032_42.red	154.9	140.1
;author inversed	Nonlocality 2	152.1	131.0
;strategy Clear, evolved with ArmsRace	14_12.red	148.6	146.5
;date 2025.05.16	Flamewraith	145.8	145.8
;assert CORESIZE == 80	[RS] Existephall Apris	142.3	150.7
ORG 0	b69e6908-a5be0bba-ab4445f	139.4	152.1
SPL.I # 39, { 57	Combat Arithmetic	138.7	155.6
MOV.I < 68, { -1	Diffraction Limit S5	138.0	159.2
MOV.I { -2, < 67	Unholy Fire	136.6	155.6
MOV.I } -2, { 54	145_13.red	135.9	159.2
DJN.F \$ -3, { 54	Quantum Foam	131.0	162.7
	Cold Plasma	130.3	151.4
	128_48.red	124.6	169.0
	[RS] Nextratulated Sturvi	124.6	173.2
	Nonlocality	123.9	168.3
	8c09fc1a-4799259f-1747246	116.2	179.6
	Pacler Deux	107.7	183.8

# inversed – Reptiloid Conspiracy – Execution Trace

```
0|##### | spl.i # 39 , { 57
1|!##### | mov.i < 68 , { 79
2|@.### | spl.i # 38 , { 57
3|!.@## | X | mov.i { 78 , < 67
4|-@.## | X | mov.i < 68 , { 79
5|@..## | X X | spl.i # 36 , { 57
6|!..@# | X X | mov.i } 78 , { 54
7|!+@.# | X X | mov.i { 78 , < 67
8|-@..# | X X | mov.i < 69 , { 79
9|@...# | X X X | spl.i # 34 , { 57
10|!...@ | X X X | djn.f $ 77 , { 54
11|!..@. | X X X | mov.i } 78 , { 54
12|!+@.. | X X X | mov.i { 78 , < 67
13|-@... | X X X | mov.i < 70 , { 79
14|@.... | X X X X | spl.i # 32 , { 57
15|!@... | X X X X | mov.i < 70 , { 79
16|-...@ | XX X X X | djn.f $ 77 , { 54
17|-.@. | XX X X X | mov.i } 78 , { 54
18|-+@.. | XX X X X | mov.i { 78 , < 67
19|-@... | XX X X X | mov.i < 71 , { 79
20|@.... | X XX X X X | spl.i # 29 , { 57
21|!@... | X XX X X X | mov.i { 78 , < 67
22|-@... | X XX X X X | mov.i < 71 , { 79
23|-...@ | X X XX X X X | djn.f $ 77 , { 54
24|-..@. | X X XX X X X | mov.i } 78 , { 54
25|-+@.. | X X XX X X X | mov.i { 78 , < 67
26|-@... | X X XX X X X | mov.i < 72 , { 79
27|@.... | X X X XX X X X | spl.i # 25 , { 57
28|!..@. | X X X XX X X X | mov.i } 78 , { 54
29|!+@.. | X X X XX X X X | mov.i { 78 , < 67
30|-@... | X X X XX X X X | mov.i < 73 , { 79
31|-...@ | X X X X XX X X X | djn.f $ 77 , { 54
32|-..@. | X X X X XX X X X | mov.i } 78 , { 54
33|-+@.. | X X X X XX X X X | mov.i { 78 , < 67
34|-@... | X X X X XX X X X | mov.i < 74 , { 79
35|@.... | X X X X XX X X X | spl.i # 21 , { 57
36|!...@ | X X X X XX X X X | djn.f $ 77 , { 54
37|!..@. | X X X X XX X X X | mov.i } 78 , { 54
38|!+@.. | X X X X XX X X X | mov.i { 78 , < 67
39|-@... | X X X X XX X X X | mov.i < 75 , { 79
40|-...@ | X X X X XX X X X | djn.f $ 77 , { 54
```

# inversed – Reptiloid Supremacy

NE 159.0, ZDNE 158.6

```
;redcode-nano
;name Reptiloid Supremacy
;author inversed
;strategy Clear with DAT bomb, evolved with ArmsRace
;date 2025.05.16
;assert CORESIZE == 80
```

```
ORG 1
DAT.B { 32, } 76
SPL.I # 48, > 49
MOV.I $ -2, < 1
MOV.I < 0, { 31
DJN.F $ -2, { 70
```

vs. Reptiloid Supremacy	Score	Given
-----	-----	-----
[RS] Nextratulated Sturvi	171.8	125.4
145_13.red	166.2	130.3
032_42.red	153.5	136.6
128_48.red	150.7	144.4
Combat Arithmetic	150.7	142.3
Flamewraith	144.4	144.4
Quantum Foam	140.8	157.7
14_12.red	140.1	157.0
Diffraction Limit S5	133.8	165.5
b69e6908-a5be0bba-ab4445f	132.4	164.1
Nonlocality	132.4	164.1
[RS] Existephall Apris	131.0	160.6
8c09fc1a-4799259f-1747246	128.2	168.3
Pacler Deux	124.6	166.9
Unholy Fire	123.9	168.3
Nonlocality 2	118.3	169.0
Cold Plasma	111.3	178.9
Transfer Function	97.9	193.0

# inversed – Reptiloid Supremacy – Execution Trace

```

0|#@### | spl.i # 48 , > 49
1|#!@## | mov.i $ 78 , < 1
2|#@.-# | spl.i # 48 , > 49
3|#!.@# | mov.i < 0 , { 30
4|#!@-# | mov.i $ 78 , < 1
5|#@.-# | spl.i # 48 , > 49
6|#!.-@ | djn.f $ 78 , { 70
7|#!.@. | mov.i < 0 , { 28
8|#!@-. | mov.i $ 78 , < 1
9|#@.-. | spl.i # 48 , > 49
10|#!@-. | mov.i $ 78 , < 1
11|#!.-@ | djn.f $ 78 , { 70
12|#!.@. | mov.i < 0 , { 25
13|#!@-. | mov.i $ 78 , < 1
14|#@.-. | spl.i # 48 , > 49
15|#!.@. | mov.i < 0 , { 23
16|#!@-. | mov.i $ 78 , < 1
17|#!.-@ | djn.f $ 78 , { 70
18|#!.@. | mov.i < 0 , { 21
19|#!@-. | mov.i $ 78 , < 1
20|#@.-. | spl.i # 48 , > 49
21|#!.-@ | djn.f $ 78 , { 70
22|#!.@. | mov.i < 0 , { 19
23|#!@-. | mov.i $ 78 , < 1
24|#!.-@ | djn.f $ 78 , { 70
25|#!.@. | mov.i < 0 , { 17
26|#!@-. | mov.i $ 78 , < 1
27|#@.-. | spl.i # 48 , > 49
28|#!@-. | mov.i $ 78 , < 1
29|#!.-@ | djn.f $ 78 , { 70
30|#!.@. | mov.i < 0 , { 14
31|#!@-. | mov.i $ 78 , < 1
32|#!.-@ | djn.f $ 78 , { 70
33|#!.@. | mov.i < 0 , { 12
34|#!@-. | mov.i $ 78 , < 1
35|#@.-. | spl.i # 48 , > 49
36|#!.@. | mov.i < 0 , { 10
37|#!@-. | mov.i $ 78 , < 1
38|#!.-@ | djn.f $ 78 , { 70
39|#!.@. | mov.i < 0 , { 8
40|#!@-. | mov.i $ 78 , < 1

```

# Qualification Round Results

Warrior	Author	Strategy	NE	ZDNE
Forbes	Roy van Rijn	Clear	168.3	160.9
Glitch//CORE	John Metcalf	Replicator	163.6	151.0
9dc398e6-3534c074-784d693e.rc	bvowk	Clear / imp	163.4	152.1
6b790897-f7e68574-324ebd10.rc	bvowk	Clear / imp	162.1	150.1
Nashville Tennessee	Roy van Rijn	Replicator	161.2	151.1
rogue[AI]	John Metcalf	Clear	160.6	153.3
gazette	Iain	Replicator	159.7	149.0
Reptiloid Supremacy	inversed	Clear	159.0	158.6
shards of the pale moon	raptor	Clear / imp	155.5	142.9
Voodoo Curse	Simon Wainwright	Quickscanner	154.6	148.3
Ultimate Balrog	Simon Wainwright	Clear	154.5	148.1
Karlach	koorogi	Clear / imp	154.0	147.6
hymn of the hollow star	raptor	Clear	152.2	143.7
Reptiloid Conspiracy	inversed	Clear	151.2	154.4

# Qualification Round Results

Warrior	Author	Strategy	NE	ZDNE
conduit	Iain	Clear	150.9	138.8
Ripple in the Equilibrium	S.Fernandes	Replicator	149.7	142.7
Bombus Nashii	S.Fernandes	Scanner	148.6	142.8
rdr: Smitten Atrocity	Dave Hillis	Clear	148.2	147.4
rdr: Sawtooth Grindstone	Dave Hillis	Clear	146.1	144.7
Gem Tumour	Steve Gunnell	Clear	144.7	144.2
Vilifier	Steve Gunnell	Replicator	138.8	138.0
21_5	NDusN	Clear	136.4	136.6
Eventuality Of Goats	Telkkar	Clear / imp	131.7	125.9
Discreet Foghorn	Telkkar	Clear	120.4	113.4
Astarion	koorogi	Clear / imp	106.7	104.0
Evolvernano173038	Drugganator	Clear	107.0	99.2
Evolvernano151282	Drugganator	Clear	105.9	98.1

# Final Round Results

Rank	Prob	Score	Name	Author
1	18.40	142.25	<b><u>Reptiloid Supremacy</u></b>	inversed
2	15.80	142.25	<b><u>Reptiloid Conspiracy</u></b>	inversed
3	10.95	142.25	14_12.red	yabevolver
4	9.52	142.25	path of the mountain hare	John Metcalf
5	7.75	142.25	[RS] Existephall Apris	inversed
6	5.71	142.25	145_13.red	yabevolver
7	5.44	142.25	<b><u>Smitten Atrocity</u></b>	Dave Hillis
8	4.18	142.25	Creamed Corn	Terry Newton
9	4.03	142.25	032_42.red	yabevolver
10	3.88	142.25	rumpelstiltskin	gnik
11	3.76	142.25	Another MEVO Thing	Terry Newton
12	2.99	142.25	<u>9dc398e6-3534c074-784d693e</u>	bvowk
13	2.72	142.25	NanoCracker	Terry Newton
14	2.60	142.25	<u>Bombus Nashii</u>	S.Fernandes
15	1.05	142.25	<u>Karlach</u>	koorogi

# Final Round Results

Rank	Prob	Score	Name	Author
16	0.61	142.25	Red Moon	Fluffy
17	0.40	142.25	Diffraction Limit S5	inversed
18	0.21	142.25	Black Sun II	Fluffy
27	0	141.16	Ultimate Balrog	Simon Wainwright
38	0	140.23	Glitch//CORE	John Metcalf
45	0	138.82	gazette	lain
46	0	138.82	Forbes	Roy van Rijn
47	0	138.75	Sawtooth Grindstone	Dave Hillis
51	0	138.54	Ripple in the Equilibrium	S.Fernandes
73	0	136.88	Voodoo Curse	Simon Wainwright
75	0	136.87	hymn of the hollow star	raptor
91	0	135.89	Nashville Tennessee	Roy van Rijn
99	0	135.52	shards of the pale moon	raptor
112	0	134.50	6b790897-f7e68574-324ebd10	bvowk
122	0	133.75	rogue[AI]	John Metcalf
181	0	129.17	conduit	lain