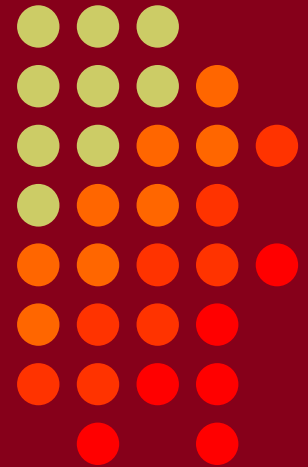


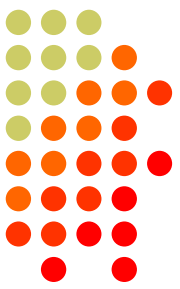
# Software Logging Programs

By Andy Blank  
N2NT



• CTU •  
CONTEST  
UNIVERSITY

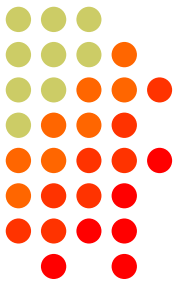
ICOM®



# Introduction

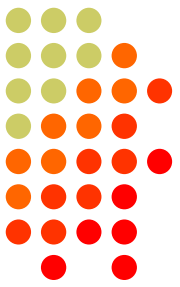
- Plethora of loggers now available.
- We will help to choose the right one for you.
- Learn to use powerful features.
- Maximize your score using operating tools.
- How to send in the log!
- Results of CTU Survey

# What is popular today

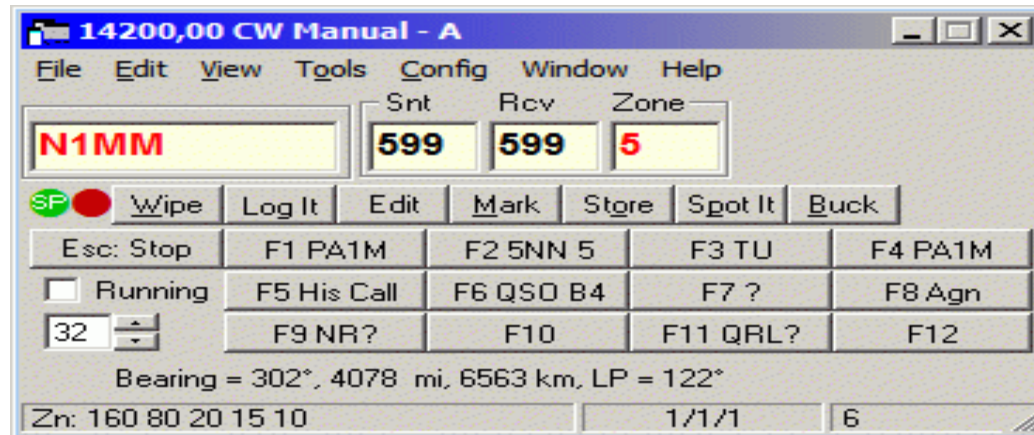


- N1MM
- Writelog
- WinTest
- Sd
- CTWin
- Trlog
- CT and NA for DOS

# N1MM

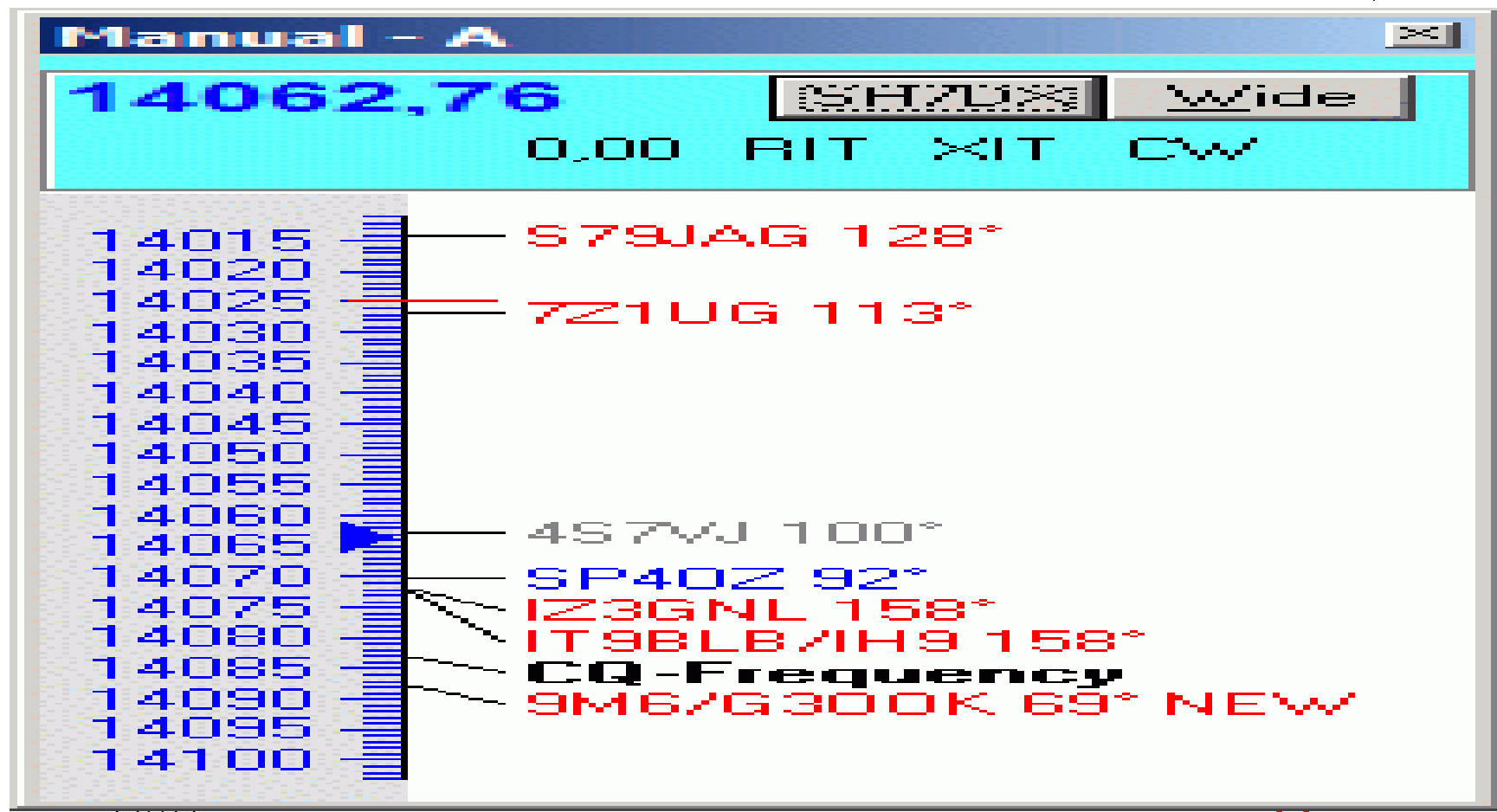


- Free!
- Fully configurable windows. Entry window:
- Excellent support and discussion group ( [N1MMLogger@yahoogroups.com](mailto:N1MMLogger@yahoogroups.com) )

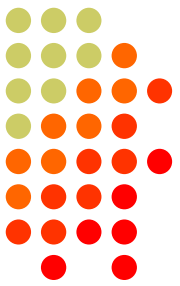




# N1MM Band Map



# N1MM Config Menu



**Configurer**

Winkey | Mode Control | Antennas | Audio

**Hardware** | Files | Function Keys | Digital Modes | Other

Port	Radio	Digital	Packet	CW/PTT	Details
Com1	Kenwood	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Set
Com2	None	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Set
Com3	None	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Set
Com4	None	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Set
Com5	None	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Set
Com6	None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Set
Com7	None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Set
Com8	None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Set
LPT1				<input checked="" type="checkbox"/>	Set
LPT2				<input type="checkbox"/>	Set
LPT3				<input type="checkbox"/>	Set

SO2V  SO2R

4800,N,8,2,DTR=Always  
9600,N,8,1,Handshake  
DTR=CW,RTS=PTTTx=1  
HandshakeTx=1  
DTR=Always On,RTS=Always

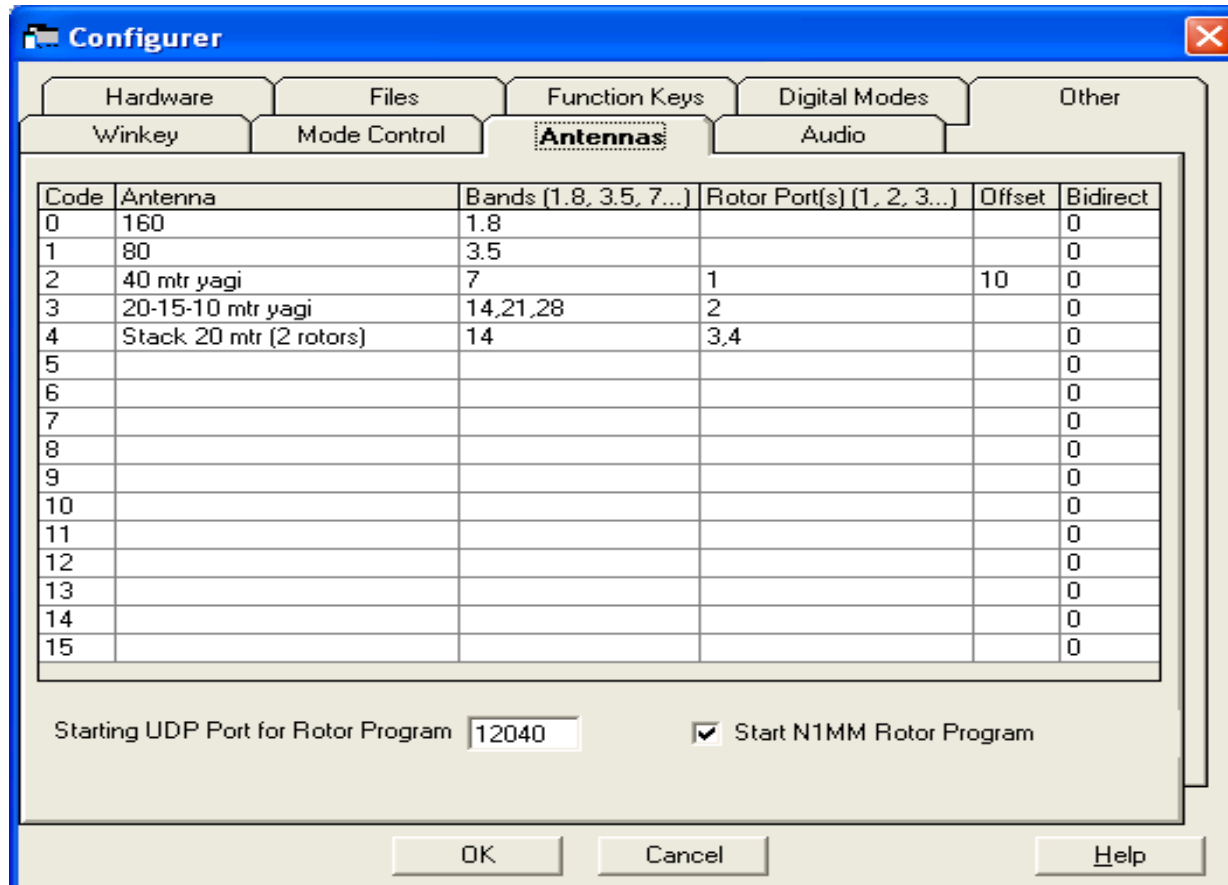
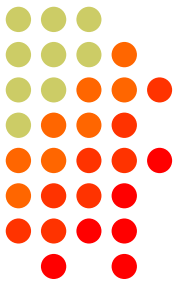
Pin17=CW,Pin16=PTTTx=1

Telnet Cluster  
226dul063.bresnanlink.n Edit

OK Cancel Help

# N1MM Interesting feature

## Antenna Control



# Writelog by W5XD



- Very Stable
- Networking a bit quirky.
- Auto updates network failures.
- SO2R Friendly
- Support page at [K9JY.com](http://K9JY.com)
- Cost \$30.00USD with 12mo free upgrade.
- Favorite of RTTY contesters

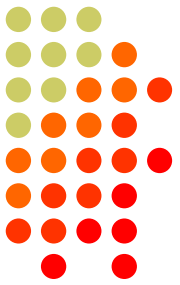


# Writelog entry window



Radio	SEQ	CALL	RS	NUMB
3500 kHzCW	L	---	599	---
7000 kHzCW	R	---	599	---

# Writelog Config Box



Port Setup--What is Connected?

	CW	DVK	Antenna relay	Rig Type	Baud Rate	Poll	Comm PTT
COM1	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>	Yaesu FT-1KMP	AUTO	<input checked="" type="checkbox"/>	YES
COM2	<input checked="" type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>	No Rig	AUTO	<input checked="" type="checkbox"/>	YES
COM3	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>	No Rig	AUTO	<input checked="" type="checkbox"/>	YES
COM4	<input type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>	No Rig	AUTO	<input checked="" type="checkbox"/>	YES
LPT1	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	DVK type <input type="radio"/> NA interface <input checked="" type="radio"/> Windows sound board <input type="radio"/> W9XT interface <input type="radio"/> None	OK Cancel Help		
LPT2	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>				
LPT3	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>				
	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>				

All mode PTT on CW port RTS

Rotator control on COM port

Left (or only) Rig: None DCU-1

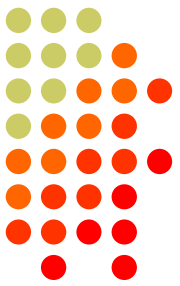
Right Rig: None DCU-1

CW keyer type

- PC generates
- old w5xd keyer
- AEA PK-232
- w5xd multi+mk1100

Wave File Locate...  
CW Speeds...  
CW PTT...

# Packet Spots



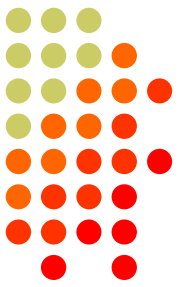
Packet Spots

Bands All Bands

Mults Only  Auto Scrol

In-band Only

M SM5	Follow me	14192.1	2045Z
x 3B9	160M	21024.5	2044Z
x N5P	80M	14075.7	2044Z
M VP5	40M	28494.5	2044Z
	20M		
	15M		
	10M		



# Editing the Log

- Move cursor up and down to edit previous QSOs

SEQ	DATE	TIME	FREQ	CALL	SN	RS	WMB	P	MULS	PX	COUNTRY	C	PREF
322	2002-02-09	2231	14090	WX4TM	599	599	774	1	248	WX4	United States	K	
323		2232	14089	N9CK	599	599	554	1	249	N9	United States	K	
324	2003-09-27	2347	21000	JY/K9JY	599	599	120	3	250	JY0	Jordan	JY	

# Master Files for Check Partial



- Open your browser and go to:
- SSB and CW Master Files:  
<http://www.k5zd.com/scp/>
- RTTY Master File: <http://www.rttycontesting.com>
- Once at the site, save the files on your local hard drive in the \WriteLog\Programs subdirectory.

# WIN-TEST By F5MZN



The screenshot displays the WIN-TEST software interface with the following panels:

- Worked zones:** A grid showing worked zones for 160, 80, 40, 20, 15, and 10 meters.
- Map:** A world map showing worked zones.
- Worked DXCC:** A list of worked DXCC entities including X39, Y4, YK, and Oceania (3A2, 3B2, 3C, 3D).
- Radio 1:** A frequency display showing 7032.8 and 7034.9 MHz.
- All bands - All modes:** A bar chart showing worked zones across all bands and modes.
- Time by mult:** Statistics for CW 30 WPM, showing 3 Mts 23 Sec, 1 QSO counts: 1 943 Pts, 1 mult counts: 11 939 Pts, and 1 mult worth: 6.1 QSO.
- Check multipliers:** A table showing multipliers for 160, 80, and 40 meters.
- Summary:** A table summarizing worked zones and multipliers for 160, 80, and 40 meters.
- Log Table:** A table listing worked zones with columns for time, zone, and multiplier.

BAND	QSO	DUP	DXC	CQ	POINTS	AVG
160	269	4	62	12	319	1.19
80	448	0	95	25	860	1.92
40	1198	12	125	37	2888	2.34
20	1204	8	132	38	2786	2.31
15	1091	6	128	37	2637	2.42
10	1011	12	123	36	2529	2.50
<b>TOTAL</b>	<b>5221</b>	<b>42</b>	<b>665</b>	<b>185</b>	<b>11939</b>	<b>2.29</b>

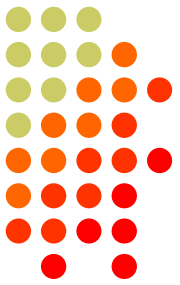


# Unique and N +1

- Database is searched for similar callsigns, off by 1 character.

```
N + 1
[ UNIQUE]      K5TQ      W5DQ
W5RQ           W5ZQ (TX)  W5TA
W5TB           W5TD      W5TH (OK)
W5TV           W5TLQ
```

# Configuring Telnet and Network



**DxCluster settings**

Hostname/IP : ab5k.net

Port : 7300

Login : m0clw

Password : secret

No password required

Commands to send at connection :

Autoconnect at startup

Try to restore connection automatically

OK Cancel

**Win-test communication network properties**

Broadcast IP address : 127.255.255.255

Port number : 9871

Application ID : TELNET

Disable communication with Win-Test

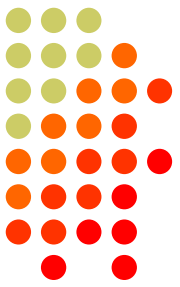
OK Cancel Default





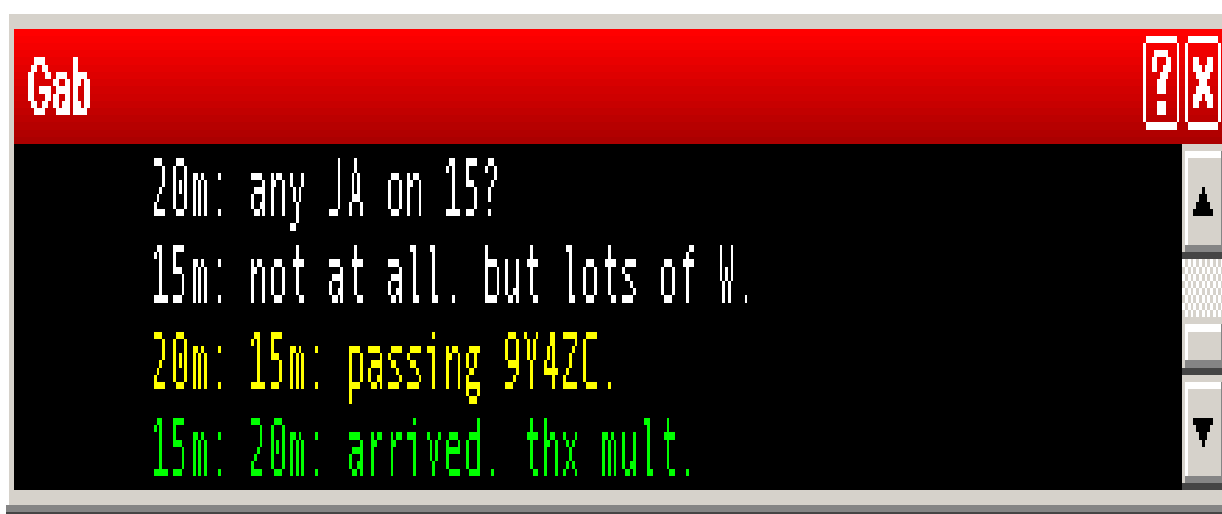
# Other Nice Features

- Advanced SO2R control using EZmaster or MK2R-
- QSY timers for Multi Op.
- Ability to redefine keys and use macros.
- Greyline map window.



# Gab window

- A must for multis!

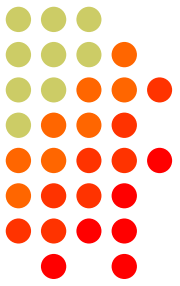


# SD by EI5DI



- Totally free
- Full log editing, everything in ASCII
- Simple operation
- Covers most major HF contests.
- Other versions available for VHF etc.
- Great for those who want a stable logger without the bells and whistles

# SD Features

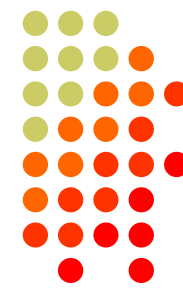


- Dupe checking
- Country/Band analysis
- Check Partial by prefix
- Beam headings
- Advance flagging of potential multipliers
- Band/Mode analysis by callsign
- Linked database display
- Auto data insert (Zones and area codes)
- Countries Worked/Wanted by Continent



# CT Win

- Windows version of most popular program by K1EA
- Basic features, not as advanced as N1MM, Writelog, or Win-Test.
- Remember to update SCP and Country files before each contest
- Free!
- Quite stable and proven



# Typical CT setup

Check Country

160				
2172	80	0520	LU1FZR	13
329	40	0629	AY1I	13
3299	20	2357	LU5FCI	13
1197	15	1553	LU1FZR	13
1460	10	1749	LU6ETB	13
Argentina: LU Zone: 13				
169 deg sr/ss 0849/2310				

PacketCluster(R)

1505	ZS6ME	
1500	C31UA	
1500	EW3EE	
1359	S08HW	
1402	Y10EB	
1353	EU1DX	
1351	UY2LA	14012.0 *
1341	UT1EK	14183.5 *
1322	OX3UUT	14226.0 #
1321	EW3EE	14012.3 *

Rates

Last 10 QSO Rate = 27.0  
 Last 100 QSO Rate = 35.6  
 Mult worth 9.5 minutes  
 Rates for all bands  
 Time ON: 44.5 hours  
 Time OFF: 3.4 hours

Radio 1 10:10:16

3292	20	2343	VG6SV	59	04	_____
3293	20	2347	XE1L	59	06	_____
3294	20	2350	ZP5CSM	59	11	_____
3295	20	2351	LU1YY	59	13	_____
3296	20	2353	LU1UM	59	13	_____
3297	20	2355	L37N	59	13	_____
3298	20	2356	LU1NF	59	13	_____
3299	20	2357	LU5FCI	59	13	_____
3300	20			59		_____

QSO's Needed All Bands

	Q	Z	C	D
160	46	10	42	1
80	339	21	85	4
40	176	28	88	2
20	1475	40	155	2
15	1167	30	140	34
10	53	17	46	0
ALL	3256	146	557	43

CQMM Score: 6,625,072  
 Running Station  
 QSO's per Mult: 4.6  
 Current Op: KC1XX

CT Version 9.26 by K1EA



## TRlog by N6TR

- DOS only; Oldie but Goodie.
- First choice of top Sprinters
- Fully configurable, great for CW contesters
- Standard for SO2R operation



# Typical TRlog setup

- Windows configurable by DOS commands

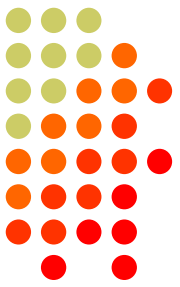
```
162240 Pts          1999 ARRL Sweepstakes KSTEXASRADIO          Mem = 76088
12:06:24 160      80      40      20      15      10      All      N3BB OK!!
SSB QSOs    0      26      402      244      373      0      1045      Space bar for 80SSB QSO
DomMults                    78                      QSO needs for K5RAT
                                                CW : All
                                                SSB: All
                                                Mult needs for K5RAT
Ab Ak Al Ar Az Bc Co Ct De Eb Em ENy Ep Ew Ga Ia Id
Il In Ks Ky La Lax Mar Mb Mdc Me Mi Mn Mo Ms Mt Nc
Nd Ne NF1 Nh Nl NLi Nm NNj NNy NTx Nv Nwt Oh Ok On
Or Org Pac Pr Qc Ri Sb Sc Scv Sd Sdg Sf SF1 Sjv Sk
SNj Stx Sv Tn Ut Va Vi Vt Wl WMa WNy WPa WTx Wv WYa
Wz
K 323° 1310z/2334z
40SSB 22-Nov-98 11:58 1041 KF4ZTJ          106 A 98 Tn          2
40SSB 22-Nov-98 11:59 1042 N9DHX          55 0 82 In          2
40SSB 22-Nov-98 12:00 1043 N0MSB          16 A 90 Mn          2
40SSB 22-Nov-98 12:01 1044 W6IXP          53 B 55 Scv         2
40SSB 22-Nov-98 12:02 1045 KB2POP          422 B 92 NNj        2
40SSB 22-Nov-98 12:06 1046 K5RAT          United States
Right 1238 98STX Last 60 = 533 Rate= 3998
Enter exchange. Press ENTER to log, ESCAPE to abort QSO.
No calls found
F1/2-CQ F3-Ex F4-73 F5-Call F6-DECall F7-HkdB4 F8-Agn F9-? F10-Keyboard CW
```





# Advanced Features

- **Unique Name Database**
- CW Simulator
- Visible Dupesheet for unassisted
- Entry of data in any order; i.e. 72 NNJ 335 B



# Drawbacks

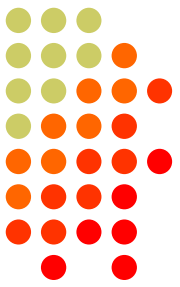
- Need DOS machine
- Windows version not likeley
- Editing QSOs can be a challenge



# CT and NA for DOS

- CT and NA are similar in operation
- NA developed for US Domestic contests by K8CC.
- Very stable, simple programs.
- Many stations dedicate DOS machines for these programs only
- Good choice for Single Op when no connection to outside world is necessary

# Cabrillo Logs



- All Programs can generate one.
- Very important for Log checking and analysis.
- Creates a standard for the log checkers, and greatly reduces workload
- Don't be afraid, follow the menus and send it in!



# Use the Power!

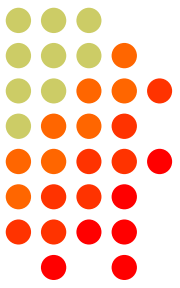
- Fill the bandmap even as a S/O.
- Let the computer do the automation; bandswitching the ants and control the radio.
- Check multipliers and pass them.
- Use Check Partial and callsign databases to improve accuracy.
- Watch your rate! It might be more productive to search and pounce.
- Use SO2R to keep your signal on the air.
- Watch sunrise/sunset for openings.
- If no new multipliers are found, use the windows to find new QSO's. SO2R will help.
- Be careful with off times and 10 min rule! Let the software tell you.



# Go to discussion groups

- Make sure you sign up for your software's reflector.
- Go to [Contesting.com](http://Contesting.com) for a list of active ones.
- Any question can probably be found in the archives.
- If not, do not be afraid to ask!
- Most authors will gladly add new features and fix broken ones if they make sense.

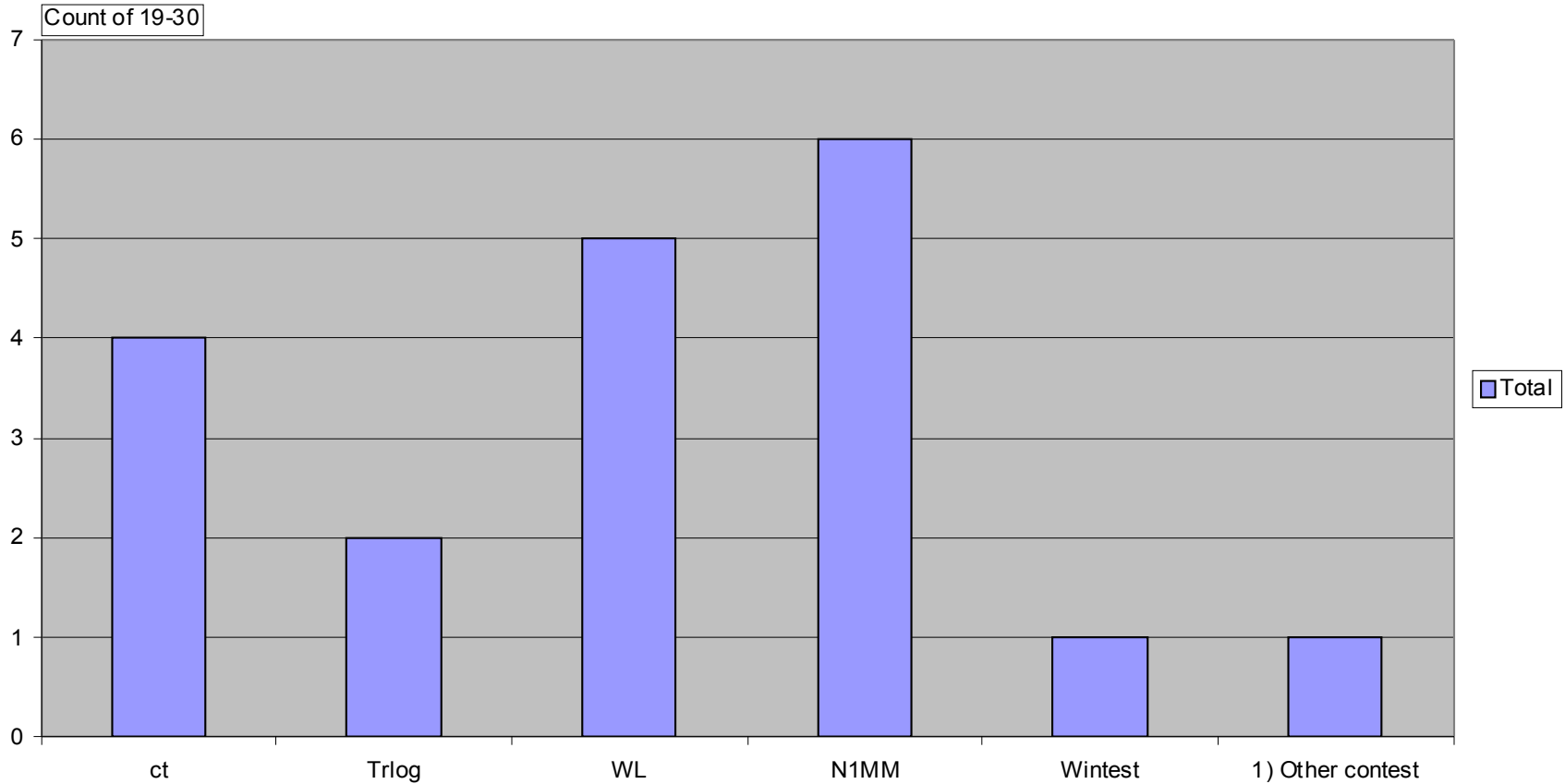
# CTU Survey Highlights



- 524 Responses
- Most popular program
- Favorite modes
- Contest specific
- Results vs. Program
- Average age
- Most used features

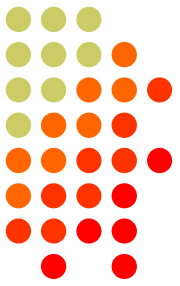
# Software age 19-30

Total

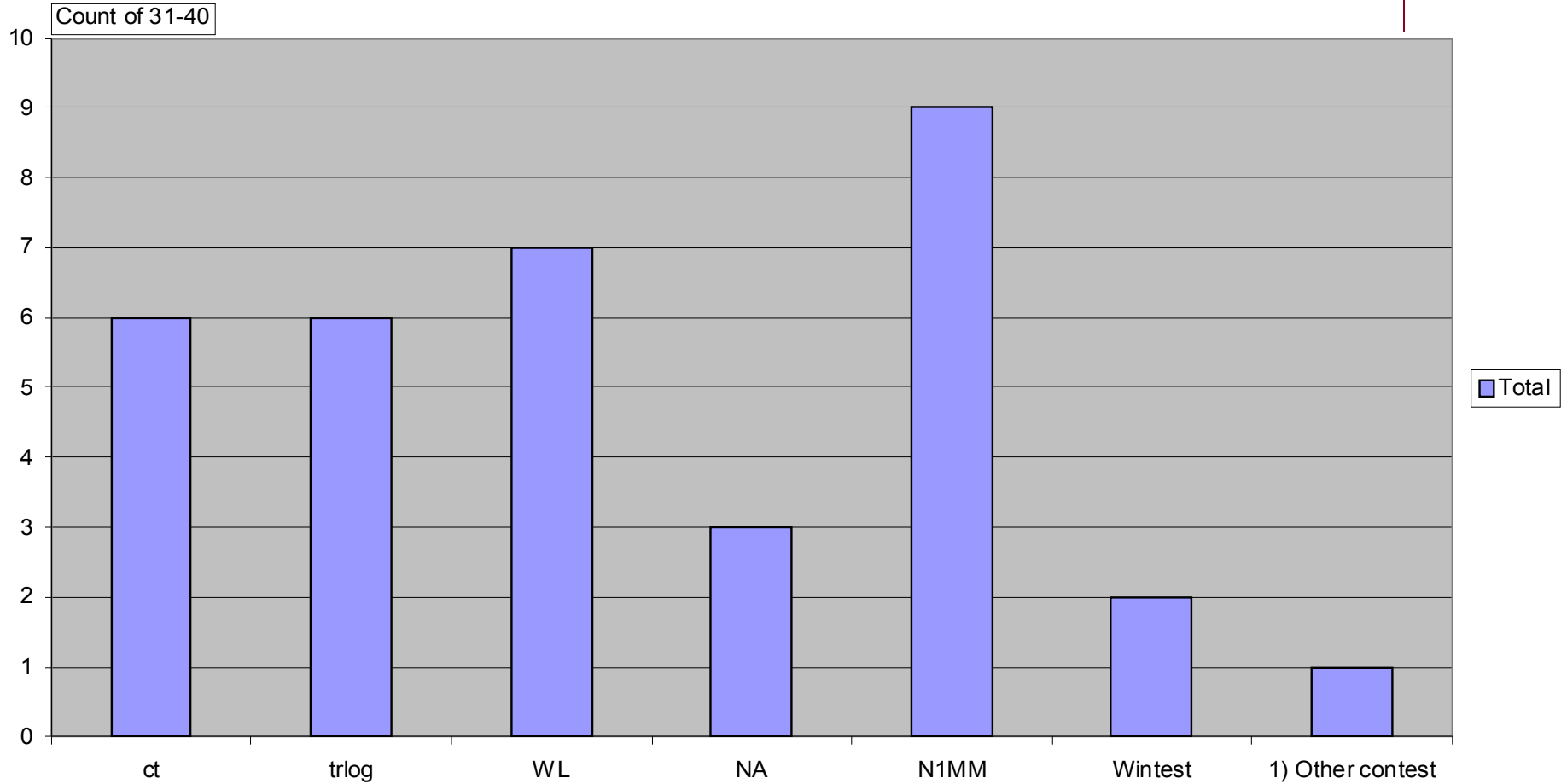




# Software age 31-40



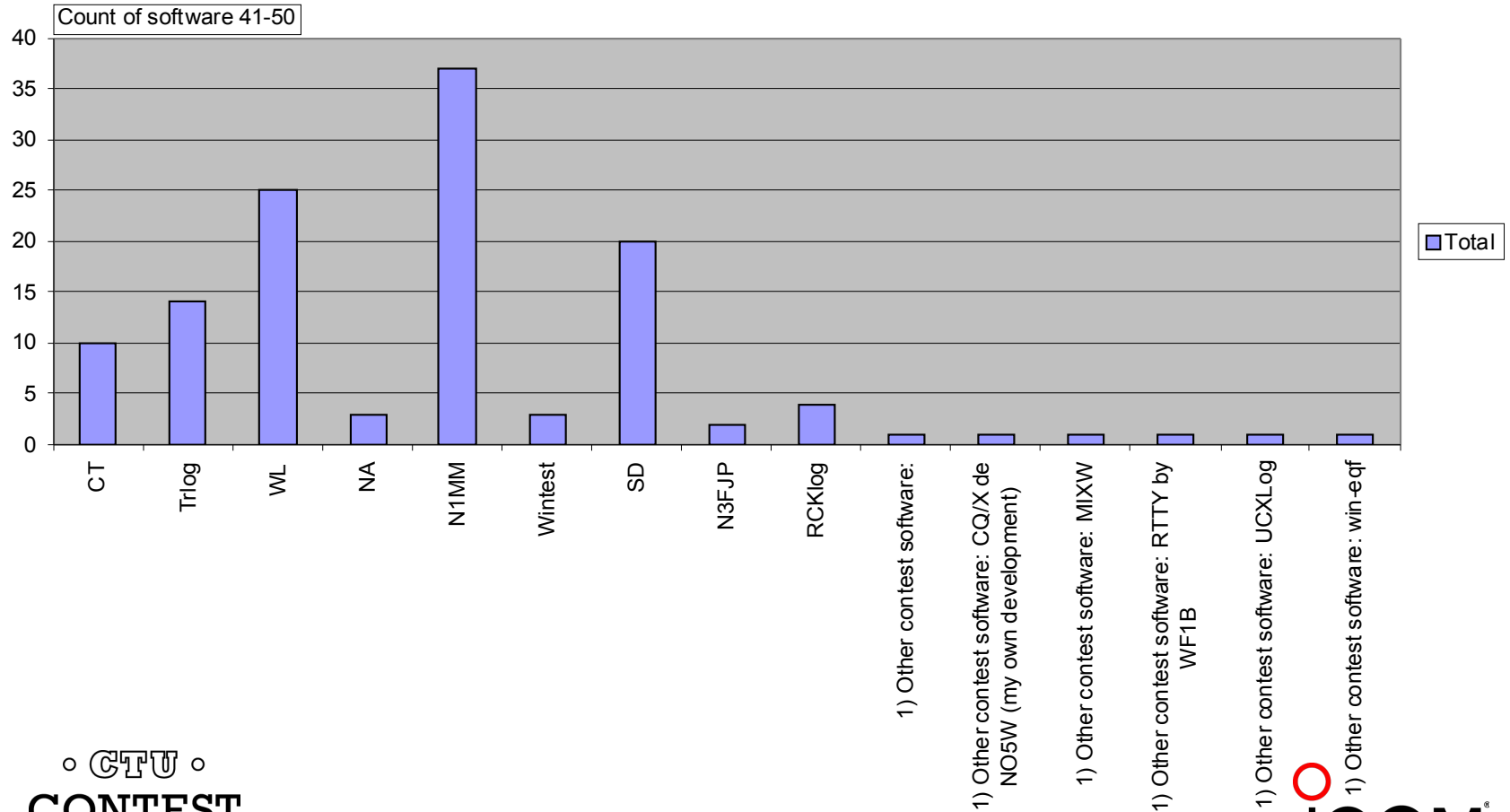
Total



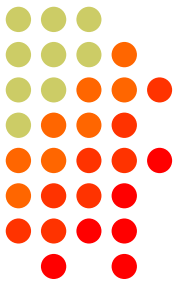
# Software age 41-50



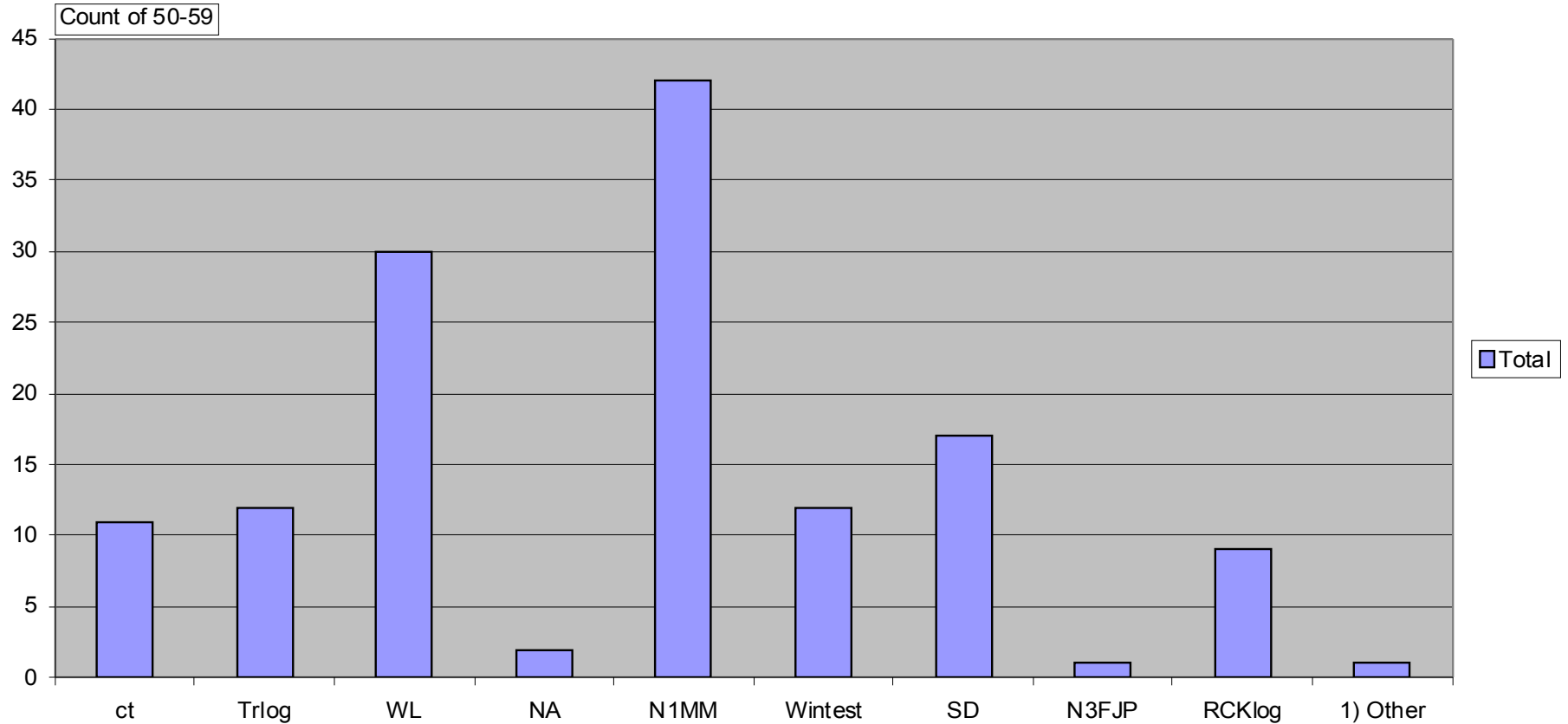
Total



# Software age 50-59

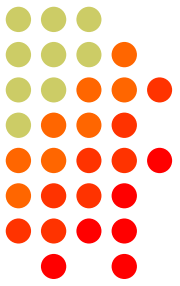


Total

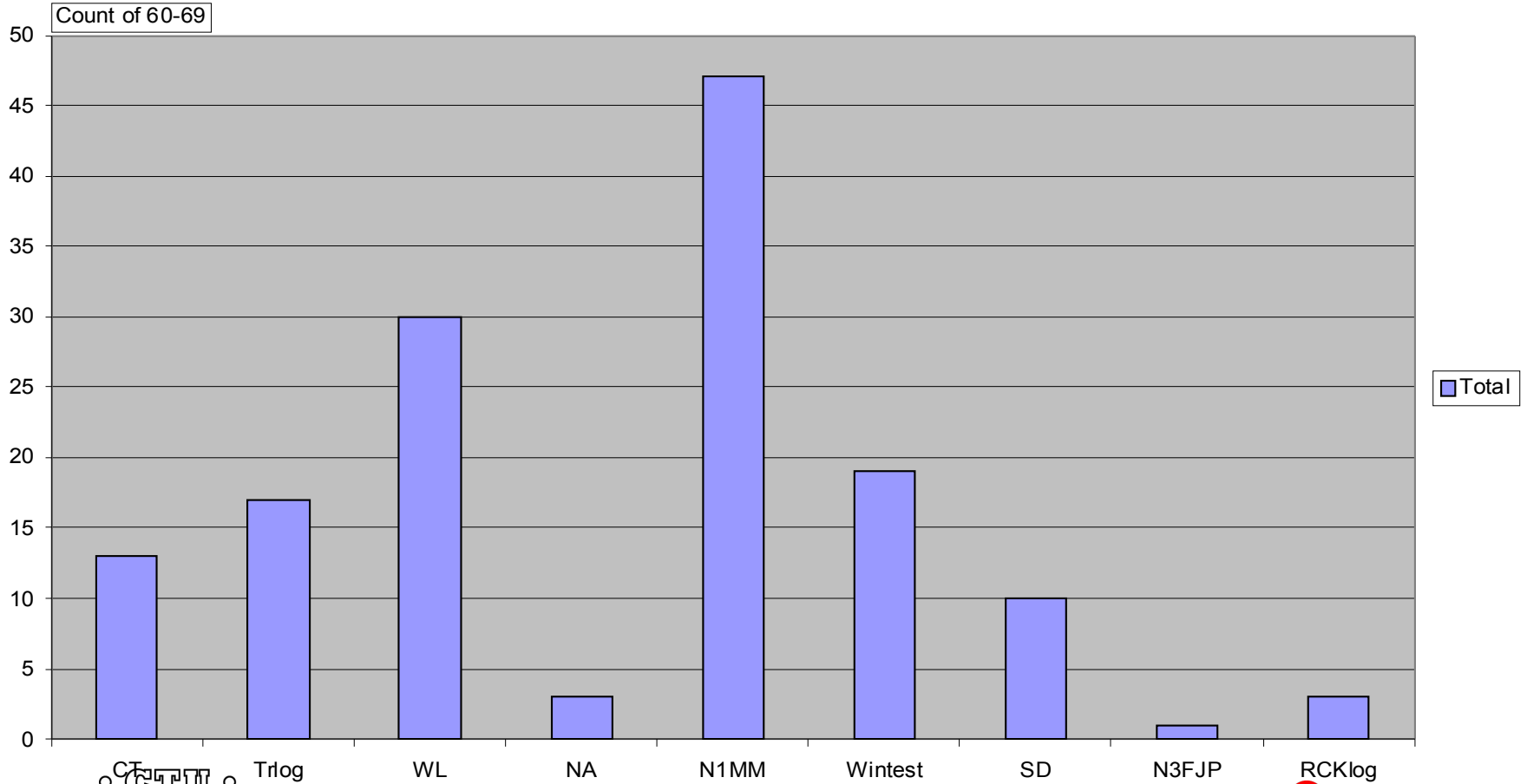


Total

# Software age 60-69



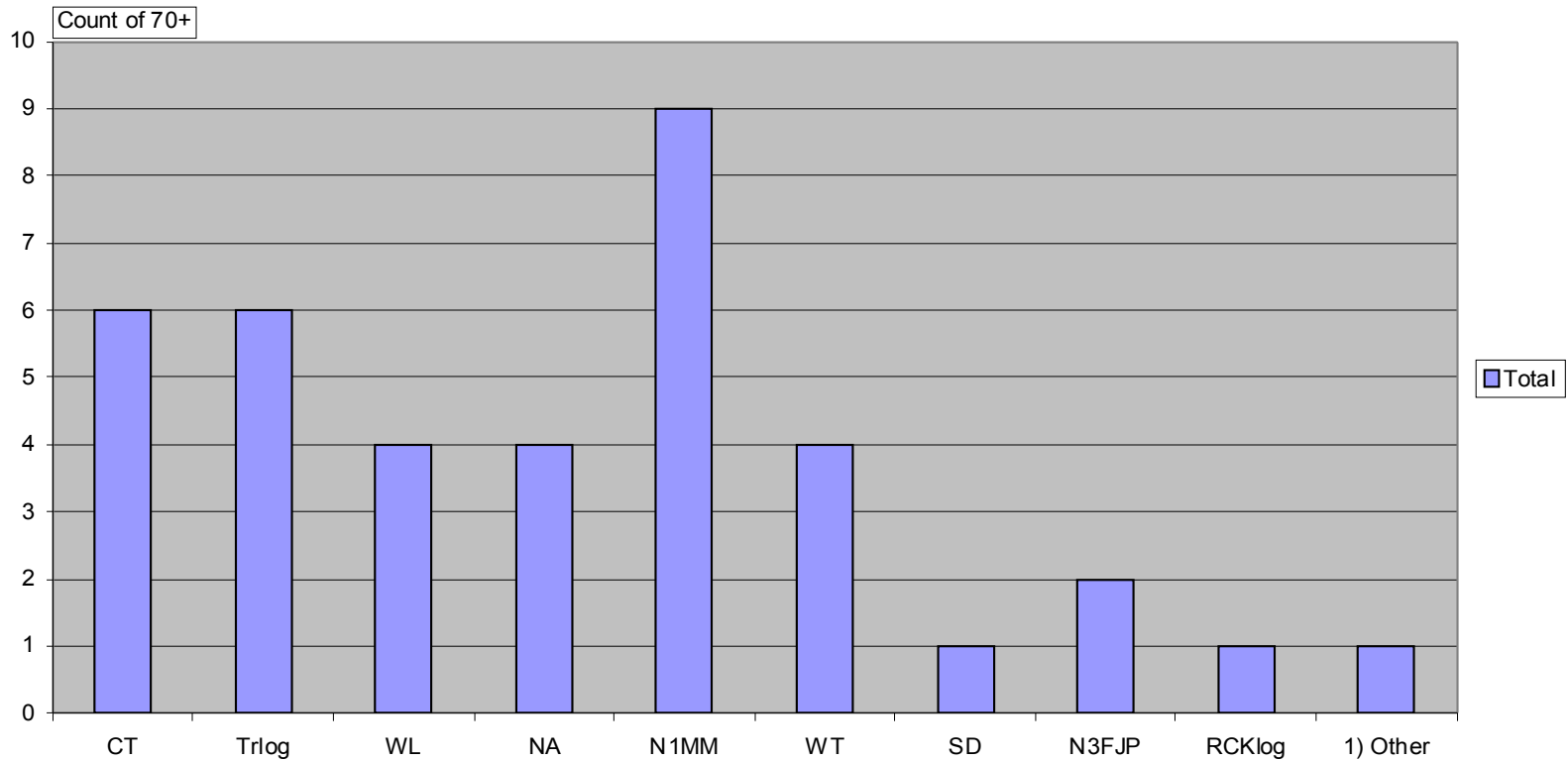
Total



# Software age 70+

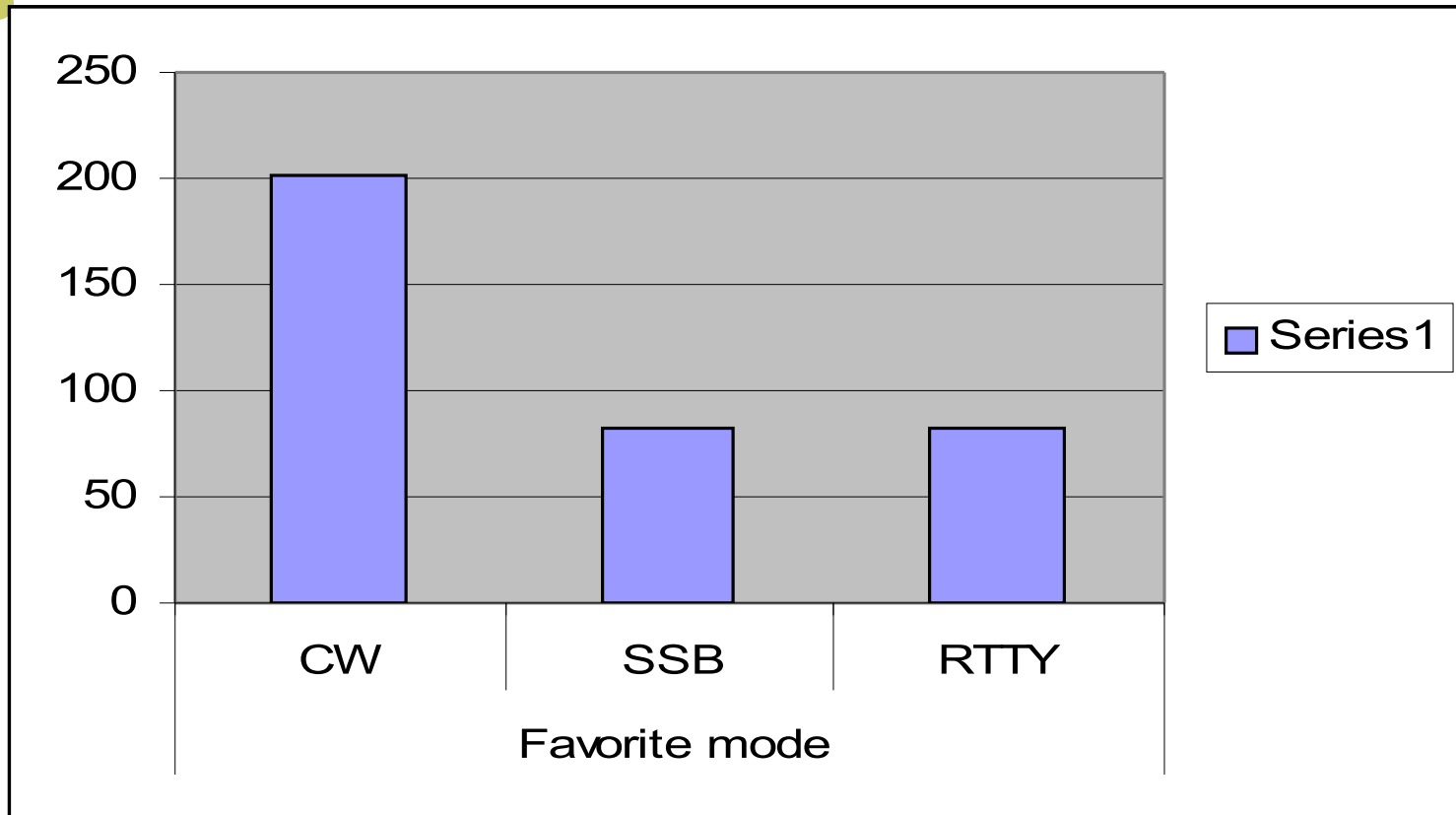


Total



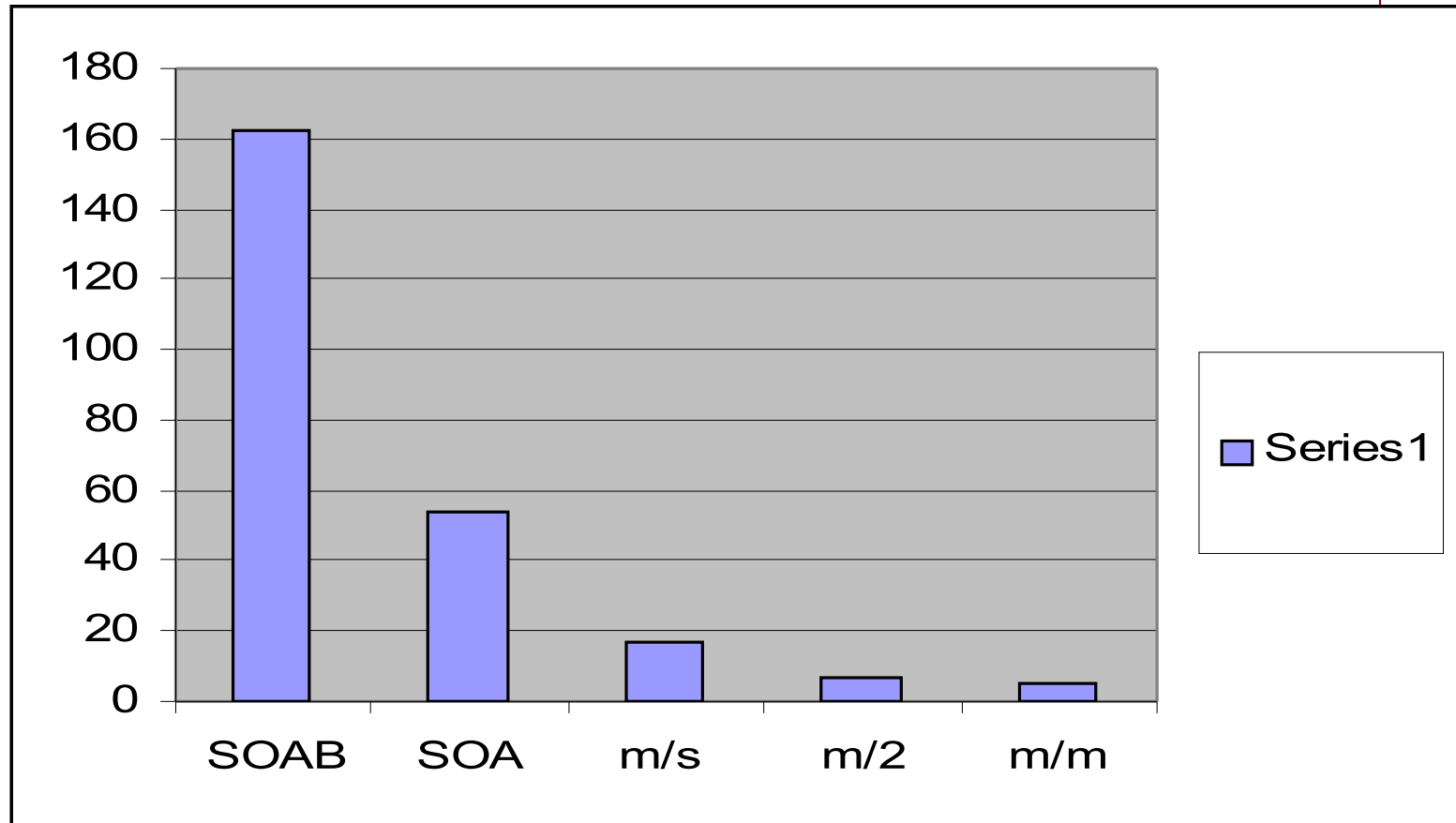
1) Other contest software: Win-EQF

# Favorite mode

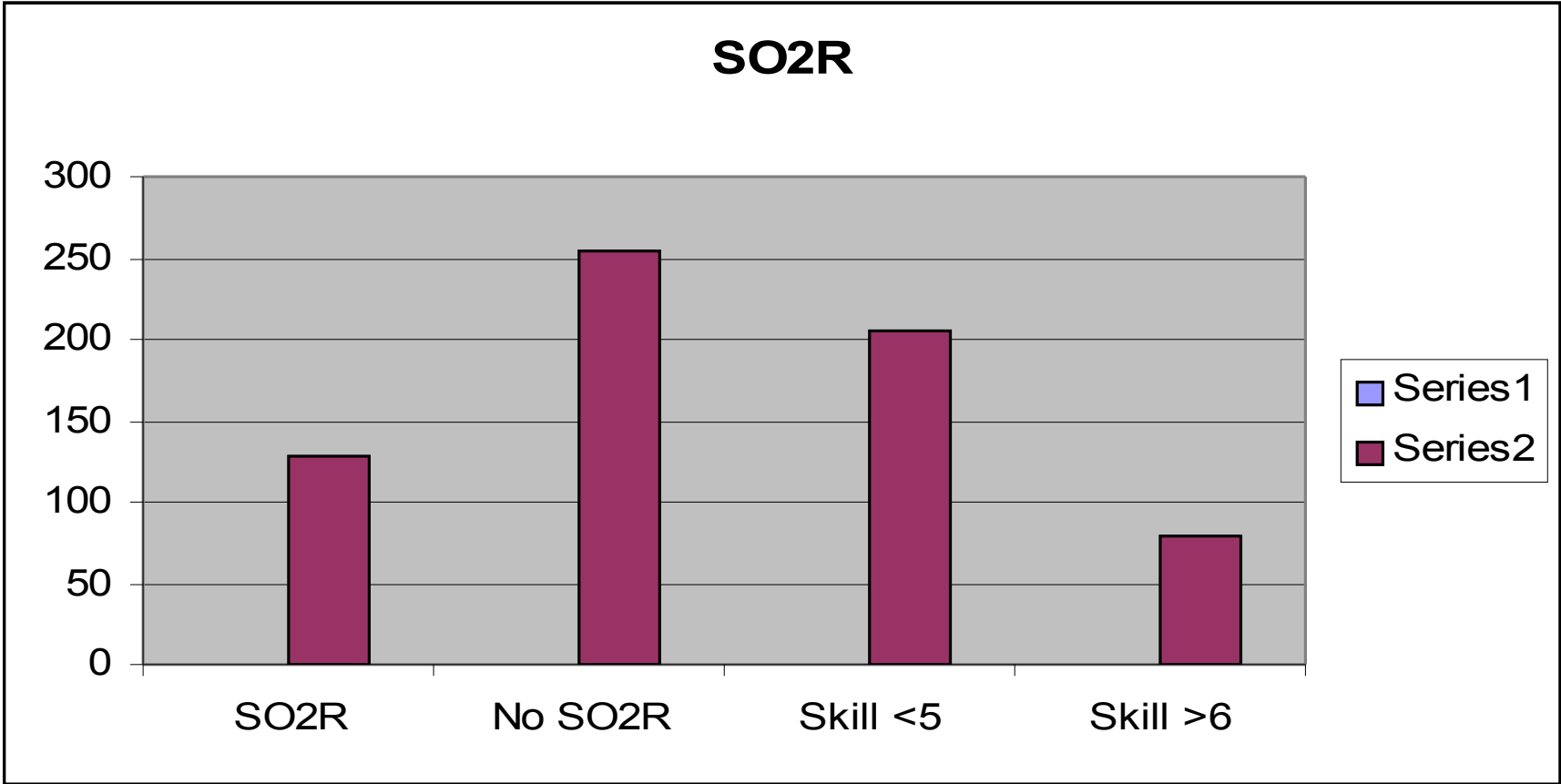




**>70% in category**

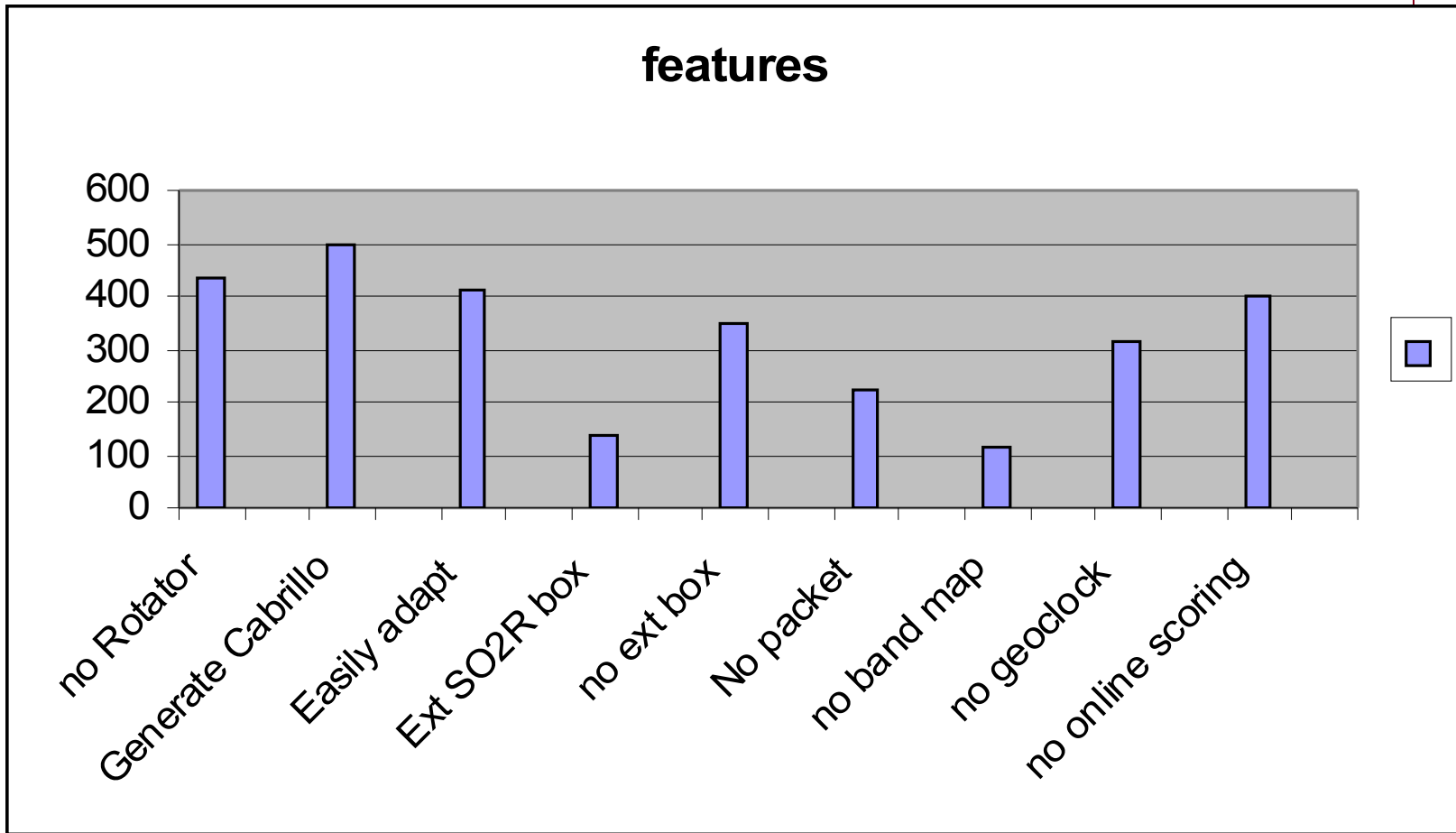


# SO2R Stats

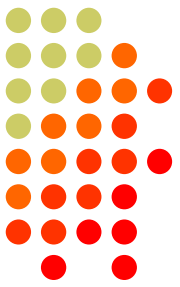




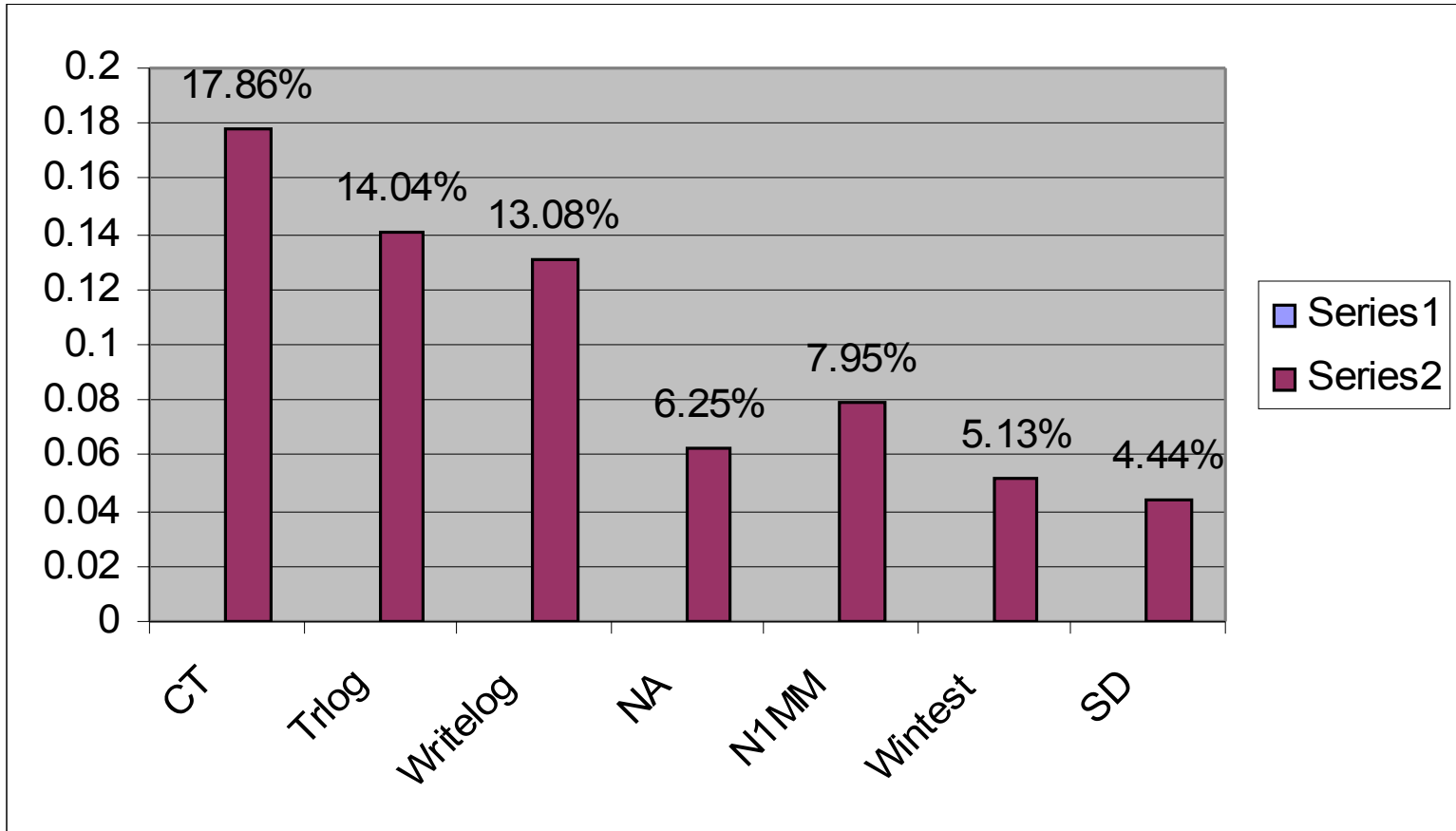
# Use of features



o CTU o



# % Unhappy with support



# Final comments



- Most happy with support and features
- Writelog took a hit on support
- Trlog is DOS only
- Most fancy features go unused
- SO2R is key to success
- Pick one and learn it cold!