

Performance testing of EPICS user interfaces -- an attempt to compare the performance of MEDM, EDM, CSS-Boy and EPICS

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- "Is it fast enough?" rather than "Which is fastest?"?
- Used commodity desktop hardware what you can buy today for ~ \$1000 or so
- Linux Red Hat Ent 6.4 and Windows 7 Ent
- Mac hardware made direct comparisons difficult
- Lowest common denominator text and simplest widget only
- MEDM, EDM, CSS-Boy, EPICSQt, and CAQtDM and AS Delphi
- Tried to be fair





Results - text

Table 1. Linux Opdate Kates, Text widget				
UI	Version	CPU	Max Update Linux	Lossless Update Linux
CSS-BOY	3.1.4	14.88	22000	15000
EPICSQt	2.4.18	13.12	11100	10000
EDM	1.12.40	10.95	35100	20000
MEDM	3.1.7	12.83	65000	45000
CAQtDM	2.8.0	13.71	13500	5000
AS-Delphi	Int	16.54	9900	5000

Table 1: Linux Update Rates, Text Widget

Table 3: Linux Update Rates, Graphical Widget

UI	Version	Max Update Linux	Lossless Update Linux
CSS-BOY	3.1.4	9840	8000
EPICSQt	2.4.18	14400	4000
EDM	1.12.40	142880	32000
MEDM	3.1.7	136800	48000
CAQtDM	2.8.0	16600	12000
AS-Delphi	Int		

Table 2: Windows Update Rate, Text Widget				
UI	Version	CPU	Max Update W7	Lossless Update W7
CSS-BOY	3.1.4	14.88	23000	16500
EPICSQt	2.4.18	13.12	10000	8000
EDM	1.12.40	10.95	NA	NA
MEDM	3.1.7	12.83	22250	16000
CAQtDM	2.8.0	13.71	13000	5500
AS-Delphi	Int	16.54	NA	NA

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Table 4: Windows Update Rates, Graphical Widget

UI Max Version Lossless Update W7 CSS-BOY 3.1.4 28800 16000 EPICSQt 2.4.18 40000 40000 EDM 1.12.40 NA NA MEDM 3.1.7 36000 7360 CAQtDM 2.8.0 AS-Delphi Int				
EPICSQt 2.4.18 40000 40000 EDM 1.12.40 NA NA MEDM 3.1.7 36000 7360 CAQtDM 2.8.0	UI	Version	Update	Update
EDM 1.12.40 NA NA MEDM 3.1.7 36000 7360 CAQtDM 2.8.0	CSS-BOY	3.1.4	28800	16000
MEDM 3.1.7 36000 7360 CAQtDM 2.8.0	EPICSQt	2.4.18	40000	40000
CAQtDM 2.8.0	EDM	1.12.40	NA	NA
	MEDM	3.1.7	36000	7360
AS-Delphi Int	CAQtDM	2.8.0		
	AS-Delphi	Int		

Screen shots, Questions? And thanks for your attention.



Information: Opening uis/mydialog.ui in new window