Information for W32 Chipset Users

Glenn G. Lai *glenn@cs.utexas.edu* 24 October 1994

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`XF86_W32` is basically `XF86_SVGA` with the drawing code completely replaced with one based on X11R6's `mi/cfb` code and modified for the ET4000/W32 series. Even though it accepts the same keywords as `XF86_SVGA`, those not applicable to the ET4000/W32 series are silently ignored; e.g., the keyword "SpeedUp" is a no-op. The server currently supports the w32, w32i, and w32p chips. For a complete list, see the sign-on message printed by `XF86_W32`. The server supports only 8bpp operation at present.

Just as with `XF86_SVGA`, you can specify a virtual world that has a width that is a multiple of four. The size of the virtual world is constrained by the amount of the available video RAM. `XF86_W32` can use more than 1 M of video RAM, but it reserves 1 K for internal use. If you have 1 M, `XF86_W32` will say you have 1023 K, and you get to specify the virtual world as 1152x900, but not 1152x910.

The current maximum clock is set to 86 MHz, because this is what the Tseng databooks say.

If you have problems with the server. Try the following things:

- Take out the Hercules monochrome adapter, if you have one. Many configurations of the ET4000/W32 series do not allow one in the system.
- Get a motherboard with its local bus running at 33 MHz. Many, if not all, ET4000/W32 boards will surely behave in a funny way on a 50-MHz bus. You may have to use a wait state or two, but first try without any.

Note that the built-in power saver (for a "green" monitor) has not been tested. Also do not expect it to work on a board without a w32p_rev_c or later chip.

2 Acknowledgments

Jerry J. Shekhel (*jerry@msi.com*) gave me the 1-M Mirage ET4000/W32 VLB board on which the initial development (X_W32) was done.

X11R6 and the XFree86 Project provide the base code for XF86_W32.

Hercules Computer Technology Inc. lent me a 2-M Hercules Dynamite Pro VLB board for the development that led to `XF86_W32`.

Numerous testers have given me feedback for `X_W32` and later `XF86_W32`. I apologize for my failure to keep track of the people who tested `X_W32`, but the names of the people involved with the `XF86_W32` testing are listed below:

Linux:

bf11620@coewl.cen.uiuc.edu (Byron Thomas Faber)
dlj0@chern.math.lehigh.edu (David Johnson)
peterc@a3.ph.man.ac.uk (Peter Chang)
dmm0t@rincewind.mech.virginia.edu (David Meyer)
nrh@philabs.Philips.COM (Nikolaus R. Haus)
jdooley@dbp.caltech.edu (James Dooley)
thumper@hitchcock.eng.uiowa.edu (Timothy Paul Schlie)
klatta@pkdla5.syntex.com (Ken Latta)
robinson@cnj.digex.net (Andrew Robinson)
reggie@phys.washington.edu (Reginald S. Perry)
sjm@cs.tut.fi (M{kinen Sami J)
engel@yacc.central.de (C. Engelmann) **use** *cengelm@gwdg.de*
postgate@cafe.net (Richard Postgate)
are1@cec.wustl.edu (Andy Ellsworth)
bill@celtech.com (Bill Foster)

FreeBSD:

ljo@ljo-slip.DIALIN.CWRU.Edu (L Jonas Olsson)

`$XConsortium: W32.sgml,v 1.2 95/01/23 15:34:55 kaleb Exp $`
`$XFree86: xc/programs/Xserver/hw/xfree86/doc/sgml/W32.sgml,v 3.3 1995/01/28 16:02:47 dawes Exp $`