
Subject: Driver for Imaging Technology frame grabber

Posted by [rivers](#) on Fri, 01 Mar 1991 04:56:52 GMT

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I have written a PV-WAVE and IDL device driver for the FG-100-Q frame grabber from Imaging Technology.

The FG-100-Q is a board which plugs into the Q-bus on a MicroVAX or VAXStation computer. The driver allows all of the PV-WAVE and IDL graphics and imaging routines to function on the frame grabber display. The driver implements a restricted form of windowing which takes advantage of the hardware pan, scroll zoom capabilities of the ITI hardware. The driver supports device specific capabilities, such as image acquisition and overlay planes.

This driver could be used as a starting point for users who would like to write a driver for another model of frame grabber. It should be particularly easy to port to other Imaging Technology boards, such as those for the Sun, since it uses Imaging Technology's ITEX library for low-level I/O.

The name of the device is ITI. The driver is selected with the command

```
SET_PLOT, 'ITI'
```

All of the the standard PV-WAVE graphics and imaging routines work with this driver. Because of the limitations of the hardware, the only windowing routines which do anything are WSET and WSHOW. The other windowing routines (WINDOW, WDELETE, WMENU) do nothing.

PV-WAVE implements device specific commands via keywords to the DEVICE procedure.

The ITI driver supports the following keywords:

GRAB, SNAP ; For image acquisition

INITIALIZE ; Initialize the hardware

PAN, SCROLL, ZOOM ; Hardware pan, scroll, zoom

OUTPUT_BANK ; To select an output lookup table bank

PMASK, VMASK ; Set the protection masks for the bit planes

MAGNIFICATION ; Set the default window sizes and number of windows

Anyone who would like to get a copy of the source code and documentation for this driver can send me e-mail at the address below.

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