
Subject: Testers needed for TV benchmark
Posted by [billb](#) on Wed, 08 Aug 2001 17:24:05 GMT
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Hi all,

I've been working at trying to get the fastest TV update rate possible and am a little discouraged by my results so far. I developed a short benchmark program and am curious what results might be obtained by other machines. I have a P3-550 and obtained the following:

TV-Device Copy Test: Array Size: 512 13.520000 seconds
=> Frames/sec: 3.6982249 Frame time: 0.27040000
Video Xfer rate: 2908402.4 bytes/sec

TV Direct Test: Array Size: 512 13.290000 seconds =>
Frames/sec: 3.7622272 Frame time: 0.26580000
Video Xfer rate: 2958735.9 bytes/sec

If your time permits, I would appreciate knowing anyone else's results and a brief mention of the computer used. My benchmarks were identical for IDL 5.2 and 5.3.1. Thanks in advance.

Bill B.

```
=====
```

```
; Benchmark test for window updating
```

```
PRO WIN_TEST, GROUP=Group
```

```
set_plot, 'win'  
DEVICE, DECOMPOSED = 0 ; New for IDL 5.2
```

```
sz = 512
```

```
WINDOW, /FREE, /PIXMAP, XSIZE = sz, YSIZE = sz  
pixmap0_id = !D.WINDOW  
WINDOW, /FREE, XSIZE = sz, YSIZE = sz  
pixmap1_id = !D.WINDOW
```

```
R = FINDGEN(256)  
G = R  
B = R
```

```
TVLCT, R, G, B ; Load these vectors into the color table:
```

```

s = 0          ; seed
data = (randomu(s, sz, sz, 3) * 255) ; create some initial data

; TV to pixmap and copy test -----

T0 = SYSTIME(1)
FOR I = 0, 49 DO BEGIN
  WSET, pixmap0_id

  ;data = (randomu(s, sz, sz, 3) * 255)
  ;s = s + 1

  TV, data, true = 3

  WSET, pixmap1_id
  DEVICE, COPY = [0, 0, sz-1, sz-1, 0, 0, pixmap0_id]
ENDFOR

T1 = SYSTIME(1)
fps = 50.0 / (t1 - t0)
print, 'TV-Device Copy Test: Array Size: ', sz, ' ', t1 - t0, '
seconds', ' => Frames/sec: ', fps, ' Frame time:', 1.0/fps
print, ' Video Xfer rate: ', DOUBLE(sz) * DOUBLE(sz) * 3D * fps, '
bytes/sec'
print

; TV direct test -----
T0 = SYSTIME(1)
FOR I = 0, 49 DO BEGIN
  WSET, pixmap1_id

  ;data = (randomu(s, sz, sz, 3) * 255)
  ;s = s + 1

  TV, data, true = 3

ENDFOR

T1 = SYSTIME(1)
fps = 50.0 / (t1 - t0)
print, 'TV Direct Test: Array Size: ', sz, ' ', t1 - t0, ' seconds', '
=> Frames/sec: ', fps, ' Frame time:', 1.0/fps
print, ' Video Xfer rate: ', DOUBLE(sz) * DOUBLE(sz) * 3D * fps, '
bytes/sec'

WDELETE, pixmap0_id
WDELETE, pixmap1_id
END

```

Subject: Re: Testers needed for TV benchmark
Posted by [david\[2\]](#) on Thu, 09 Aug 2001 16:29:28 GMT
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Karl Schultz writes:

> Even when the X server implementation is better, that is, the
> off-screen pixmaps are faster, this can cause confusing benchmark
> results since the copy times can vary in hard-to-describe ways.

In my experience, nearly everything about pixmaps
is hard to describe. :-(

Certainly it is hard to explain why a program
works on *your* computer, but not your boss's
computer, which was ordered from the supplier
on the same PO and from the same computer
manufacturer.

That's why I always confine any explanation to
small animations and lots of hand-waving.

Cheers,

David

--

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Coyote's Guide to IDL Programming: <http://www.dfanning.com/>
Toll-Free IDL Book Orders: 1-888-461-0155

Subject: Re: Testers needed for TV benchmark
Posted by [Dennis Boccippio](#) on Fri, 10 Aug 2001 16:11:21 GMT
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IDL 5.3, MacOS 9.1, Powerbook G3/300:

TV-Device Copy Test: Array Size: 512 6.1833333 seconds

=> Frames/sec:

8.0862534 Frame time: 0.12366667

Video Xfer rate: 6359288.5bytes/sec

TV Direct Test: Array Size: 512 5.2666667 seconds

=> Frames/sec:

9.4936709 Frame time: 0.10533333

Video Xfer rate: 7466126.6bytes/sec

In article <269b6343.0108080924.2bd48749@posting.google.com>, billb@attinet.com (Bill B.) wrote:

> Hi all,
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> identical for IDL 5.2 and 5.3.1. Thanks in advance.
>
> Bill B.
>

Subject: Re: Testers needed for TV benchmark
Posted by [engpcris](#) on Mon, 20 Aug 2001 13:20:40 GMT
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My results:

Config:
Windows 2000, IDL 5.4, Athlon 1.2 Ghz, 512 Mo Ram

TV-Device Copy Test: Array Size: 512 6.2090000seconds =>
Frames/sec: 8.0528266 Frame time: 0.12418000
Video Xfer rate: 6333000.5bytes/sec

TV Direct Test: Array Size: 512 4.9970000 seconds =>
Frames/sec: 10.006004 Frame time: 0.099940000
Video Xfer rate: 7869041.5bytes/sec

Good luck.
