
Subject: Re: Windows 11 is now available

Posted by [Harry Vaderchi](#) on Thu, 07 Oct 2021 09:25:37 GMT

[View Forum Message](#) <> [Reply to Message](#)

On Wed, 06 Oct 2021 22:30:50 -0500

JAB <here@is.invalid> wrote:

> On Wed, 06 Oct 2021 22:59:09 -0400, Retrograde

> <fungus@amongus.com.invalid> wrote:

>

>> I remember

>> Win98 running just fine(1) in 128MB.

>

> IIRC, I was using 4MB on Win 3.1, and that was upgraded memory. 640kb

> in DOS days... Memory was very expensive in those days. First hard

> drive was 32megs at some \$250.00

>

> Kids today! WIWAL we 'ad 1M RAM between 20 users! & storage was punch cards.

>> Also, you probably have to buy a new machine to install it,

>

> AV1 video requires (best way to do it) hardware video decode...newest

> computers can do this, if the right ones are bought.

>

> AV1 decreases bandwidth requirements, so the "video industry" would

> like to move over to this format. Also, no royalties on it.

>

>

> Display requirements for HDR video in Windows

> Windows 11 Windows 10

> < <https://support.microsoft.com/en-us/windows/display-requirements-for-hdr-video-in-windows-192f362e-1245-e14d-3d3f-4b3fc606b80f> >

>

> Is HDR better than 4K?

> HDR delivers a higher contrast--or larger color and brightness

> range--than Standard Dynamic Range (SDR), and is more visually

> impactful than 4K. That said, 4K delivers a sharper, more defined

> image. Both standards are increasingly common among premium digital

> televisions, and both deliver stellar image quality.

>

> <https://www.lifewire.com/difference-between-hdr-and-4k-41769> 61

xposted to afc

--

Bah, and indeed Humbug.

Subject: Re: Windows 11 is now available
Posted by [Quadibloc](#) on Fri, 08 Oct 2021 04:49:08 GMT
[View Forum Message](#) <> [Reply to Message](#)

On Thursday, October 7, 2021 at 3:59:35 AM UTC-6, Kerr-Mudd, John wrote:

> Kids today! WIWAL we 'ad 1M RAM between 20 users! & storage was punch
> cards.

I remember that they could connect five users - each with their own interactive terminal (an ASR 33 Teletype) to a PDP-8 with 12K of RAM (in today's units; 8K words, each 12 bits long) and a head-per-track disk with a capacity of 32K words.

So time-sharing is possible with even less memory per user.

John Savard

Subject: Re: Windows 11 is now available
Posted by [Anonymous](#) on Fri, 08 Oct 2021 04:53:56 GMT
[View Forum Message](#) <> [Reply to Message](#)

Originally posted by: Branimir Maksimovic

On 2021-10-08, Quadibloc <jsavard@ecn.ab.ca> wrote:

> On Thursday, October 7, 2021 at 3:59:35 AM UTC-6, Kerr-Mudd, John wrote:
>
>> Kids today! WIWAL we 'ad 1M RAM between 20 users! & storage was punch
>> cards.
>
> I remember that they could connect five users - each with their own
> interactive terminal (an ASR 33 Teletype) to a PDP-8 with 12K of RAM
> (in today's units; 8K words, each 12 bits long) and a head-per-track
> disk with a capacity of 32K words.
>
> So time-sharing is possible with even less memory per user.
>
> John Savard

Well on unisys you could connect more then 100 terminals on machine with only 4mb of ram, because terminals had logic for input, and all that was exchanged was just packets sent :P

--

7-77-777

Evil Sinner!

with software, you repeat same experiment, expecting different results...

Subject: Re: Windows 11 is now available

Posted by [Harry Vaderchi](#) on Fri, 08 Oct 2021 12:13:15 GMT

[View Forum Message](#) <> [Reply to Message](#)

On Fri, 08 Oct 2021 04:53:56 GMT

Branimir Maksimovic <branimir.maksimovic@icloud.com> wrote:

> On 2021-10-08, Quadibloc <jsavard@ecn.ab.ca> wrote:

>> On Thursday, October 7, 2021 at 3:59:35 AM UTC-6, Kerr-Mudd, John
>> wrote:

>>

>>> Kids today! WIWAL we 'ad 1M RAM between 20 users! & storage was
>>> punch cards.

>>

>> I remember that they could connect five users - each with their own
>> interactive terminal (an ASR 33 Teletype) to a PDP-8 with 12K of RAM
>> (in today's units; 8K words, each 12 bits long) and a head-per-track
>> disk with a capacity of 32K words.

>>

>> So time-sharing is possible with even less memory per user.

>>

>> John Savard

>

> Well on unisys you could connect more then 100 terminals

> on machine with only 4mb of ram,

> because terminals had logic for input, and all that

> was exchanged was just packets sent :P

>

I was starting high and was hoping to progress via mechanical
calculators/sliderules to end with "my grandad just counted pebbles".

VI*VII=XLII

--

Bah, and indeed Humbug.

Subject: Re: Windows 11 is now available

Branimir Maksimovic <branimir.maksimovic@icloud.com> writes:

- > Well on unisys you could connect more then 100 terminals
- > on machine with only 4mb of ram,
- > because terminals had logic for input, and all that
- > was exchanged was just packets sent :P

Original CP67 was installed at univ. in Jan1968 by three people from cambridge science center ... could play with it on weekends on 360/67 with 768kbytes memory. The TSS/360 IBM SE and I put together synthetic fortran, compile, and execute benchmark ... and CP67/CMS with 35 emulated users had better response time and throughput than TSS/360 (on same machine) with only four users.

Later after rewriting a lot of CP67 (pathlengths, resource management, scheduling, "global LRU" page replacement, page I/O, ordered seek queuing, etc), graduating and joining the cambridge science center had 85 real users on 768kbyte (192 4k pages) 360/67 (104 4k pageable pages after fixed kernel and control block storage) had subsecond response and 100% CPU useage.

This was important because the Grenoble Science Center had modified CP67 to have a "working set dispatcher" ("local LRU" page replacement, from 1968 academic papers) running on 1mbyte (256 4k pages) with 35 (real) users had worse response and lower CPU useage (aka "global LRU" page replacement easily beat "local LRU" page replacement).

This came up more than decade later, Jim Gray and left IBM San Jose Research for Tandem and at SIGOPS (Asilomar, 14-16Dec81), he asked me if I could help co-worker at Tandem get his Stanford PHD (advisor was later president of Stanford) which involved "global LRU" (page replacement), and he knew I had down a lot of work on global LRU page replacement algorithm and had apple-to-apple comparison between local and global LRU (as undergraduate in the 60s). Some of the "local LRU" forces (dating back to 60s when I was doing "global LRU") were heavily lobbying Stanford to block awarding PHD involving global LRU.

When I went to send information ... SJR management said that I wasn't allowed to (even tho none of the information involved anything after joining IBM). I've commented that I hoped that it was done as punishment for online computer conferencing ("Tandem Memos", in the late 70s I was blamed for online computer conferencing on the internal network, folklore is when corporate executive committee was told about it, 5of6 wanted to fire me) ... rather than they taking part in the global/local LRU academic dispute. I wasn't allowed to send reply for nearly a year
<http://www.garlic.com/~lynn/2006w.html#email821019>

--

virtualization experience starting Jan1968, online at home since Mar1970

Subject: Re: Windows 11 is now available
Posted by [Anonymous](#) on Fri, 08 Oct 2021 18:40:09 GMT
[View Forum Message](#) <> [Reply to Message](#)

Originally posted by: Andy Walker

On 08/10/2021 13:13, Kerr-Mudd, John wrote:

> I was starting high and was hoping to progress via mechanical
> calculators/sliderules to end with "my grandad just counted pebbles".
> VI*VII=XLII

Not quite sure what that last line was intended to convey, but if it was that Roman numerals are not sensible in use for arithmetic, then, within reason, I beg to differ. Within the domain of small[-ish] integers, they are, if anything, rather better than Arabic numerals [else you can be sure that Romans, always very practical, wouldn't have used them]. They have a smaller and more regular multiplication table, simpler rules [eg in respect of "carries" and "borrows"], and addition and subtraction are largely mere concatenation together with some obvious re-write rules. It's a different matter when you're doing physics or even engineering to many decimal places or with numbers much over MMM, but neither the Romans nor the man on the Clapham Omnibus were much into such things.

--

Andy Walker, Nottingham.

Andy's music pages: www.cuboid.me.uk/andy/Music

Composer of the day: www.cuboid.me.uk/andy/Music/Composers/Chopin

Subject: Re: Windows 11 is now available
Posted by [Ahem A Rivet's Shot](#) on Fri, 08 Oct 2021 19:30:36 GMT
[View Forum Message](#) <> [Reply to Message](#)

On Fri, 8 Oct 2021 13:13:15 +0100

"Kerr-Mudd, John" <admin@127.0.0.1> wrote:

> VI*VII=XLII

V1*1X wasn't it (base X111 of course).

--

Subject: Re: Windows 11 is now available
Posted by [Harry Vaderchi](#) on Fri, 08 Oct 2021 19:55:46 GMT
[View Forum Message](#) <> [Reply to Message](#)

On Fri, 8 Oct 2021 19:40:09 +0100
Andy Walker <anw@cuboid.co.uk> wrote:

> On 08/10/2021 13:13, Kerr-Mudd, John wrote:
>> I was starting high and was hoping to progress via mechanical
>> calculators/sliderules to end with "my grandad just counted
>> pebbles". VI*VII=XLII
>
> Not quite sure what that last line was intended to convey,
> but if it was that Roman numerals are not sensible in use for
> arithmetic, then, within reason, I beg to differ. Within the

OK, I shudda given an example with div. (DIV =500+5-1!)

> domain of small[-ish] integers, they are, if anything, rather
> better than Arabic numerals [else you can be sure that Romans,
> always very practical, wouldn't have used them]. They have a
> smaller and more regular multiplication table, simpler rules
> [eg in respect of "carries" and "borrows"], and addition and
> subtraction are largely mere concatenation together with some
> obvious re-write rules. It's a different matter when you're
> doing physics or even engineering to many decimal places or
> with numbers much over MMM, but neither the Romans nor the
> man on the Clapham Omnibus were much into such things.
>

--

Bah, and indeed Humbug.

Subject: Re: Windows 11 is now available
Posted by [Anne & Lynn Wheel](#) on Fri, 08 Oct 2021 21:57:10 GMT
[View Forum Message](#) <> [Reply to Message](#)

Anne & Lynn Wheeler <lynn@garlic.com> writes:
> This was important because the Grenoble Science Center had modified CP67
> to have a "working set dispatcher" ("local LRU" page replacement, from

- > 1968 academic papers) running on 1mbyte (256 4k pages) with 35 (real)
- > users had worse response and lower CPU useage (aka "global LRU" page
- > replacement easily beat "local LRU" page replacement).

aka the 768kbyte IBM cambridge science center CP/67 360/67 with 104 pageable pages (after fixed memory requirements) had better response and aggregate throughput with 85 users (and "global LRU") than the 1mbyte IBM grenoble science center CP/67 360/67 with 156 pageable pages (after fixed memory requirements, i.e. 50% more pageable pages for users than cambridge machine) with 35 users and "local LRU" page replacement and "working set dispatcher" ... as described in academic literature.

so it was effectively same hardware and nearly same system ... except for the "global LRU" page replacement vis-a-vis "local LRU" page replacement ... which supported the work done for Stanford Phd work more than decade later on "global LRU".

--

virtualization experience starting Jan1968, online at home since Mar1970

Subject: Re: Windows 11 is now available
Posted by [Anonymous](#) on Sat, 09 Oct 2021 08:11:56 GMT
[View Forum Message](#) <> [Reply to Message](#)

Originally posted by: Branimir Maksimovic

On 2021-10-08, Kerr-Mudd, John <admin@127.0.0.1> wrote:

- >
- > I was starting high and was hoping to progress via mechanical
- > calculators/sliderules to end with "my grandad just counted pebbles".
- >
- > VI*VII=XLII
- >

I had calculator that could compute definite integrals
by programming it blindly :P

--

7-77-777

Evil Sinner!

with software, you repeat same experiment, expecting different results...

Subject: Re: Windows 11 is now available
Posted by [Anonymous](#) on Sat, 09 Oct 2021 08:14:11 GMT
[View Forum Message](#) <> [Reply to Message](#)

Originally posted by: Branimir Maksimovic

On 2021-10-08, Anne & Lynn Wheeler <lynn@garlic.com> wrote:

> Branimir Maksimovic <branimir.maksimovic@icloud.com> writes:

>> Well on unisys you could connect more then 100 terminals

>> on machine with only 4mb of ram,

>> because terminals had logic for input, and all that

>> was exchanged was just packets sent :P

>

> Original CP67 was installed at univ. in Jan1968 by three people from

> cambridge science center ... could play with it on weekends on 360/67 with

> 768kbytes memory. The TSS/360 IBM SE and I put together synthetic

> fortran, compile, and execute benchmark ... and CP67/CMS with 35

> emulated users had better response time and throughput than TSS/360

> (on same machine) with only four users.

>

> Later after rewritting a lot of CP67 (pathlengths, resource management,

> scheduling, "global LRU" page replacement, page I/O, ordered seek

> queuing, etc), graduating and joining the cambridge science center

> ... had 85 real users on 768kbyte (192 4k pages) 360/67 (104 4k pageable

> pages after fixed kernel and control block storage) had subsecond

> response and 100% CPU useage.

>

> This was important because the Grenoble Science Center had modified CP67

> to have a "working set dispatcher" ("local LRU" page replacement, from

> 1968 academic papers) running on 1mbyte (256 4k pages) with 35 (real)

> users had worse response and lower CPU useage (aka "global LRU" page

> replacement easily beat "local LRU" page replacement).

>

> This came up more than decade later, Jim Gray and left IBM San Jose

> Research for Tandem and at SIGOPS (Asilomar, 14-16Dec81), he asked me if

> I could help co-worker at Tandem get his Stanford PHD (advisor was later

> president of Stanford) which involved "global LRU" (page replacement),

> and he knew I had down a lot of work on global LRU page replacement

> algorithm and had apple-to-apple comparison between local and global LRU

> (as undergraduate in the 60s). Some of the "local LRU" forces (dating

> back to 60s when I was doing "global LRU") were heavily lobbying

> Stanford to block awarding PHD involving global LRU.

>

> When I went to send information ... SJR management said that I wasn't

> allowed to (even tho none of the information involved anything after

> joining IBM). I've commented that I hoped that it was done as punishment

> for online computer conferencing ("Tandem Memos", in the late 70s I was

> blamed for online computer conferencing on the internal network,

> folklore is when corporate executive committee was told about it, 5of6

> wanted to fire me) ... rather than they taking part in the global/local

> LRU academic dispute. I wasn't allowed to send reply for nearly a year

> <http://www.garlic.com/~lynn/2006w.html#email821019>

>
I was too young, then. I reached first IBM when I got to practice
school programs and later in university :P

--

7-77-777

Evil Sinner!

with software, you repeat same experiment, expecting different results...

Subject: Re: Windows 11 is now available
Posted by [Anonymous](#) on Sat, 09 Oct 2021 08:15:13 GMT
[View Forum Message](#) <> [Reply to Message](#)

Originally posted by: Branimir Maksimovic

On 2021-10-08, Ahem A Rivet's Shot <steveo@eircom.net> wrote:

> On Fri, 8 Oct 2021 13:13:15 +0100
> "Kerr-Mudd, John" <admin@127.0.0.1> wrote:
>
>> VI*VII=XLII
>
> V1*1X wasn't it (base X111 of course).
>

Oh, forgot that calculus :P

--

7-77-777

Evil Sinner!

with software, you repeat same experiment, expecting different results...

Subject: Re: Windows 11 is now available
Posted by [Harry Vaderchi](#) on Sat, 09 Oct 2021 10:37:59 GMT
[View Forum Message](#) <> [Reply to Message](#)

On Fri, 8 Oct 2021 20:30:36 +0100
Ahem A Rivet's Shot <steveo@eircom.net> wrote:

> On Fri, 8 Oct 2021 13:13:15 +0100
> "Kerr-Mudd, John" <admin@127.0.0.1> wrote:
>
>> VI*VII=XLII
>

> V1*1X wasn't it (base X111 of course).

>

Ah, well unforgot!

--

Bah, and indeed Humbug.

Subject: Re: Windows 11 is now available

Posted by [Anonymous](#) on Sat, 09 Oct 2021 23:40:34 GMT

[View Forum Message](#) <> [Reply to Message](#)

Originally posted by: Bob Eager

On Fri, 08 Oct 2021 13:13:15 +0100, Kerr-Mudd, John wrote:

> I was starting high and was hoping to progress via mechanical
> calculators/sliderules to end with "my grandad just counted pebbles".
>
> VI*VII=XLII

Ah, but what's XLII - XLII?

--

Using UNIX since v6 (1975)...

Use the BIG mirror service in the UK:

<http://www.mirrorservice.org>

Subject: Re: Windows 11 is now available

Posted by [Anonymous](#) on Sun, 10 Oct 2021 00:29:33 GMT

[View Forum Message](#) <> [Reply to Message](#)

Originally posted by: Andy Walker

On 10/10/2021 00:40, Bob Eager wrote:

> Ah, but what's XLII - XLII?

That's a very modern [and quite sophisticated] question.

Bob [to an ancient Roman who happens to speak English]: "What is
xlii -"

Roman [interrupts]: "Que?"

Bob: "Ah, sorry, you don't have symbols yet. Let's try it in

words. You have xlii."

Roman: "xlii /what/?"

Bob: "It doesn't matter, it's just a number."

Roman: "Of course it matters! If you have xlii slaves, you're wealthy, if xlii grains of corn, rather less so."

Bob: "OK, you have xlii sheep. A thief takes away xlii of them. How many sheep do you have now?"

Roman: "Is this a trick question, like the man going to St Ives? You don't now have any sheep, so the question has no answer."

Bob: "You don't know what the number of sheep is?"

Roman: "If you don't have any, then there is no such number. It's nearly as daft as asking how many I have if the thief takes away ccx of my xlii sheep. If you ask me what I own, then do you expect me to list the things I have or the things I don't have? I don't have any sheep, thanks to your thief, but I also don't have any elephants, or any palaces or any bottles of whisky or any Olympic medals or any lots of other things. Do you also want me to tell you how much the elephants I don't have are worth? We could be here for a very long time unless you ask more sensible questions."

--

Andy Walker, Nottingham.

Andy's music pages: www.cuboid.me.uk/andy/Music

Composer of the day: www.cuboid.me.uk/andy/Music/Composers/Ravel

Subject: Re: Windows 11 is now available
Posted by [Anonymous](#) on Sun, 10 Oct 2021 00:45:33 GMT
[View Forum Message](#) <> [Reply to Message](#)

Originally posted by: J. Clarke

On 9 Oct 2021 23:40:34 GMT, Bob Eager <news0009@eager.cx> wrote:

> On Fri, 08 Oct 2021 13:13:15 +0100, Kerr-Mudd, John wrote:
>
>> I was starting high and was hoping to progress via mechanical
>> calculators/sliderules to end with "my grandad just counted pebbles".
>>
>> VI*VII=XLII
>
> Ah, but what's XLII - XLII?

A rout?

Subject: Re: Windows 11 is now available
Posted by [Charlie Gibbs](#) on Sun, 10 Oct 2021 17:34:51 GMT
[View Forum Message](#) <> [Reply to Message](#)

On 2021-10-10, Andy Walker <anw@cuboid.co.uk> wrote:

> Bob: "OK, you have xlii sheep. A thief takes away xlii of them.
> How many sheep do you have now?"
> Roman: "Is this a trick question, like the man going to St Ives?
> You don't now have any sheep, so the question has no answer."

Ah, grasshopper, the true master can distinguish between:

zero
blank
null string
unspecified
undefined

--
/~\ Charlie Gibbs | Life is perverse.
\/ <cgibbs@kltpzyxm.invalid> | It can be beautiful -
X I'm really at ac.dekanfrus | but it won't.
/\ if you read it the right way. | -- Lily Tomlin

Subject: Re: Windows 11 is now available
Posted by [Harry Vaderchi](#) on Sun, 10 Oct 2021 18:39:44 GMT
[View Forum Message](#) <> [Reply to Message](#)

On Sun, 10 Oct 2021 17:34:51 GMT
Charlie Gibbs <cgibbs@kltpzyxm.invalid> wrote:

> On 2021-10-10, Andy Walker <anw@cuboid.co.uk> wrote:
>
>> Bob: "OK, you have xlii sheep. A thief takes away xlii of them.
>> How many sheep do you have now?"
>> Roman: "Is this a trick question, like the man going to St Ives?
>> You don't now have any sheep, so the question has no answer."
>
> Ah, grasshopper, the true master can distinguish between:
> zero
> blank
0C7!

> null string
> unspecified
> undefined
>

> --
> /~\ Charlie Gibbs | Life is perverse.
> \/ <cgibbs@kltpzyxm.invalid> | It can be beautiful -
> X I'm really at ac.dekanfrus | but it won't.
> /\ if you read it the right way. | -- Lily Tomlin

--
Bah, and indeed Humbug.
