

Re: 4GBs of RAM Miscount

Source:

<http://www.tech-archive.net/Archive/Windows/microsoft.public.windows.server.sbs/2007-04/msg00119.html>

- *From:* "Paul Shapiro" <paul@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Sun, 1 Apr 2007 22:19:55 -0400
-

If you look in the BIOS at boot time, does it show 4GB? Maybe it's only seeing 3GB. Then the 2.8GB visible to the OS seems reasonable. Could be a problem with one of the RAM modules. You could also try removing one at a time and seeing what happens.

Paul Shapiro

"SuperGumby [SBS MVP]" <not@xxxxxxxxxxxx> wrote in message [news:OGABHSMdHHA.984@xxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:OGABHSMdHHA.984@xxxxxxxxxxxxxxxxxxxxxxxxxxxx)

and...

with a little help from a friend I was inspired to find Raymond's musings <http://blogs.msdn.com/oldnewthing/archive/2006/08/14/699521.aspx>
Why can't I see all of the 4GB of RAM in my machine?

"SuperGumby [SBS MVP]" <not@xxxxxxxxxxxx> wrote in message [news:OsuYJKMdHHA.1508@xxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:OsuYJKMdHHA.1508@xxxxxxxxxxxxxxxxxxxxxxxxxxxx)

hey, by the by

wanna tell us a little more about the system (mobo, brand, video card, etc...)? I just realised you're not missing a few hundred MB, you're missing 1.1GB+, that's a lot to sacrifice to devices.

"SuperGumby [SBS MVP]" <not@xxxxxxxxxxxx> wrote in message [news:OAnJYCMdHHA.4172@xxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:OAnJYCMdHHA.4172@xxxxxxxxxxxxxxxxxxxxxxxxxxxx)

the /3gb switch should not be used on SBS. Basically, the number of kernel mode services normally crowds the room, reducing this to give additional resources to user mode 'starves' the system.

However, if it's still showing 2.87 I'd go looking elsewhere.

"Daniel Jewel" <cyberdudeiq@xxxxxxxxxxxx> wrote in message [news:e1gV\\$2LdHHA.420@xxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:e1gV$2LdHHA.420@xxxxxxxxxxxxxxxxxxxxxxxxxxxx)

Re: 4GBs of RAM Miscount

SuperG,
no luck yet...I added a seconf line (as a
caution) and added the
following switches /PAE /3GB
OS still shows RAM to 2.87 GB
Could it be the order of the switches ?

Dan

"SuperGumby [SBS MVP]"
<not@xxxxxxxxxxxx> wrote in message
news:ODsK1VLdHHA.4516@xxxxxxxxxxxxxxxxxxxxxxxxxxxx

I know of no adverse affects
beyond discussions easily
found at
support.ms but those
discussions are generally
dealt with by current SP
levels or deal with particular
behaviours/circumstances.

Most of my sites are <20
users and the only heavy
SQL site is still on
SBS 2000, I haven't found it
necessary to run 4GB. My
_personal
opinion_ is that 2GB is a
'sweet spot' for SBS,
covering a wide range
of use. I would recommend
more today but most of my
client's systems
have been in operation for
some time. Long winded
way of saying 'no',
right?-))

I suppose a cautious person
would create a second
boot.ini line,
allowing the system to be
started with/out PAE. Not
sure, but I think
'safe mode' would be
possible anyway.

"Daniel Jewel"
<cyberdudeiq@xxxxxxxxxxxx>
wrote in message

Re: 4GBs of RAM Miscount

news:OG9YRKLdHHA.420@xxxxxxxxxxxxxxxxxxxxxxxxxxxx

Many
thanks
SuperG !

have you
ever applied
the switch
to a SBS
2003 box?
The Server
is
beginning
to work
reasonably
well
now...and I
just don't
wanto to
screw
things
up...to the
best of your
knowledge,
do you
think the
switch will
not screw
things up?
tks,
Dan

"SuperGumby
[SBS
MVP]"
<not@xxxxxxxxxxxx>
wrote in
message
news:u7NyM2KdHHA.4344@xxxxxxxxxxxxxxxxxxxxxxxxxxxx

Daniel,
please
add
the
/PAE
switch
to
your
boot.ini
line

Re: 4GBs of RAM Miscount

but
also
be
aware
of
<http://support.microsoft.com/kb/834628/en-us>
(and
other
articles
viewable
by
plugging
'2003
PAE'
into
the
search
box
at
<http://support.microsoft.com>)
and
let
us
know
how
much
memory
SBS
reports.

This
does
not
necessarily
'cure'
your
problem,
TTBOMK
it
requires
certain
criteria
to
be
satisfied
which
may
include
CPU,
motherboard,
and

Re: 4GBs of RAM Miscount

device
capabilities.

The
idea
is
that
/PAE
allows
the
system
to
move
the
reserved
space
for
the
devices
out
of
the
base
4GB,
making
the
4GB
(or
most
of
it)
available
to
the
OS.
It
does
however
have
an
impact
on
performance,
it
increases
the
'pointers'
for
memory
handling
to

Re: 4GBs of RAM Miscount

allow
32b
systems
to
access
outside
the
4GB
flat
memory
model.
Do
you
get
better
performance
from
the
increased
memory
or
by
running
without
PAE
and
living
with
the
reduced
amount?
If
it
works
with
your
system
we'll
see
:-)

<http://blogs.msdn.com/oldnewthing/archive/2004/08/18/2164>

Myth:
PAE
increases
the
virtual
address
space
beyond
4GB

Re: 4GBs of RAM Miscout

and
I'm
sure
there's
a
discussion
of
this
on
one
of
the
SBS
blogs
but
I've
checked
Susan,
Sean,
SBSdocs,
and
the
'Official'
without
luck

"Daniel
Jewel"
<cyberdudeiq@xxxxxxxxxxxx>
wrote
in
message

[news:%23u9A\\$MKdHHA.4172@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:%23u9A$MKdHHA.4172@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx)

Many
thanks
Charlie,

had
I
only
purchased
3
GBs
of
RAM
would
have
the
same

Re: 4GBs of RAM Miscount

impact
on
the
overall
performance?
If
yes,
that
means
I
threw
1
GB
of
RAM
out
the
window...?

Dan,

"Charlie
Russel

-

MVP"

<charlie@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>

wrote

in

message

news:AAAC4A14-5AF9-4C56-977F-7F85E7C686

This
is
a
direct
byproduct
of
the
limited
flat
memory
space
available
to
32-bit
Windows.
The
BIOS
reserves
space
for

Re: 4GBs of RAM Miscount

PCI
card
BIOS
and
memory
mapping
below
4GB.
Because
of
this,
access
to
RAM
in
that
memory
space
is
blocked.
With
a
64-bit
OS
this
can
be
remapped
above
4GB,
eliminating
the
problem.
And
many
BIOS
have
the
ability
to
reduce
this
hit
with
one
of
several
configuration
changes.

--

Re: 4GBs of RAM Miscount

Charlie.

<http://msmvps.com/xperts64>

"Daniel

Jewel"

<cyberdudeiq@xxxxxxxxxxxx>

wrote

in

message

<news:OYg7W68cHHA.2088@xxxxxxxxxxxx>

hello

all,

this

is

the

first

time

I

see

this

(usually

don't

go

over

2

GBs)

that

tere

are

4GBs

installed

but

the

OS

(SBS2003

R2

Premium

SP2)

only

shows

2.87GB...I

have

nothing

sharing

the

main

RAM...

Re: 4GBs of RAM Miscount

Also,
do
I
have
to
add
some
sort
of
switch
in
boot.ini
or
someplace
else?

Thanks,

Dan