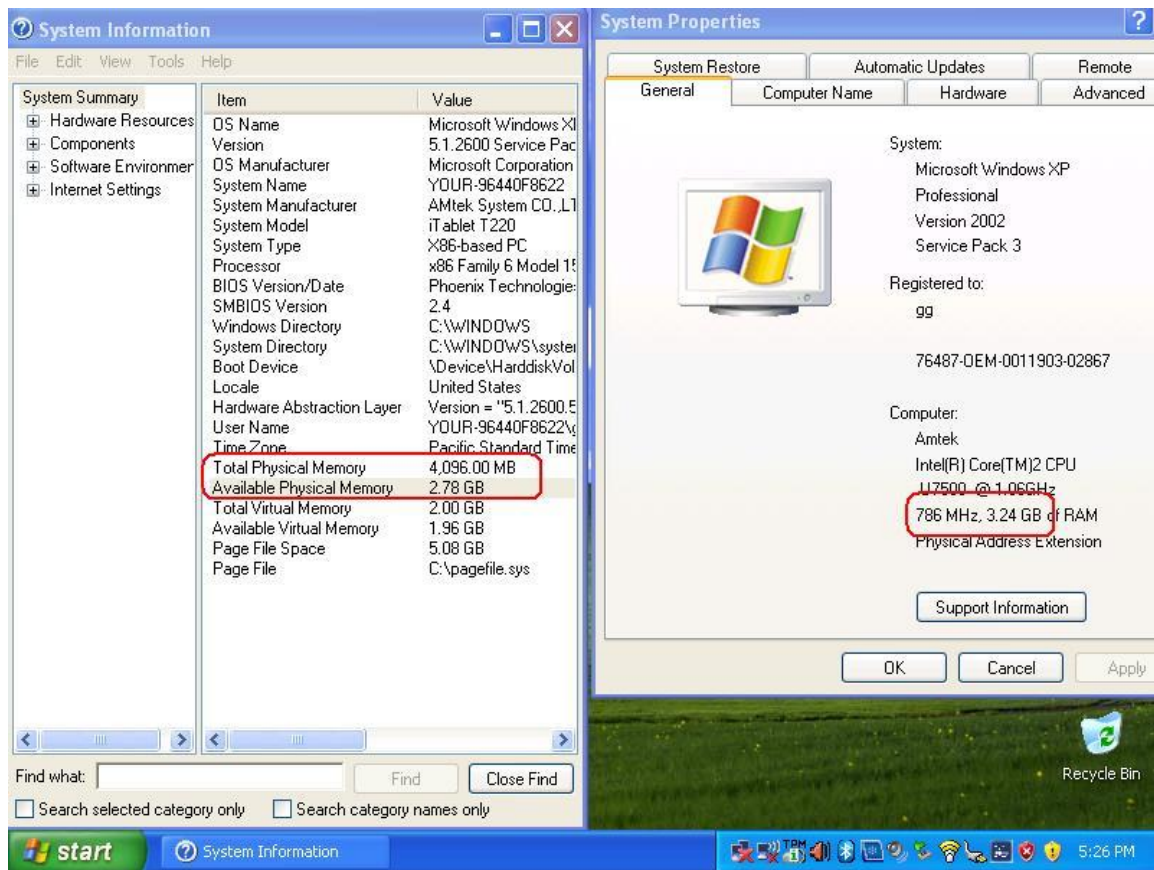


# Why my 4GB RAM size became to 3.24GB?

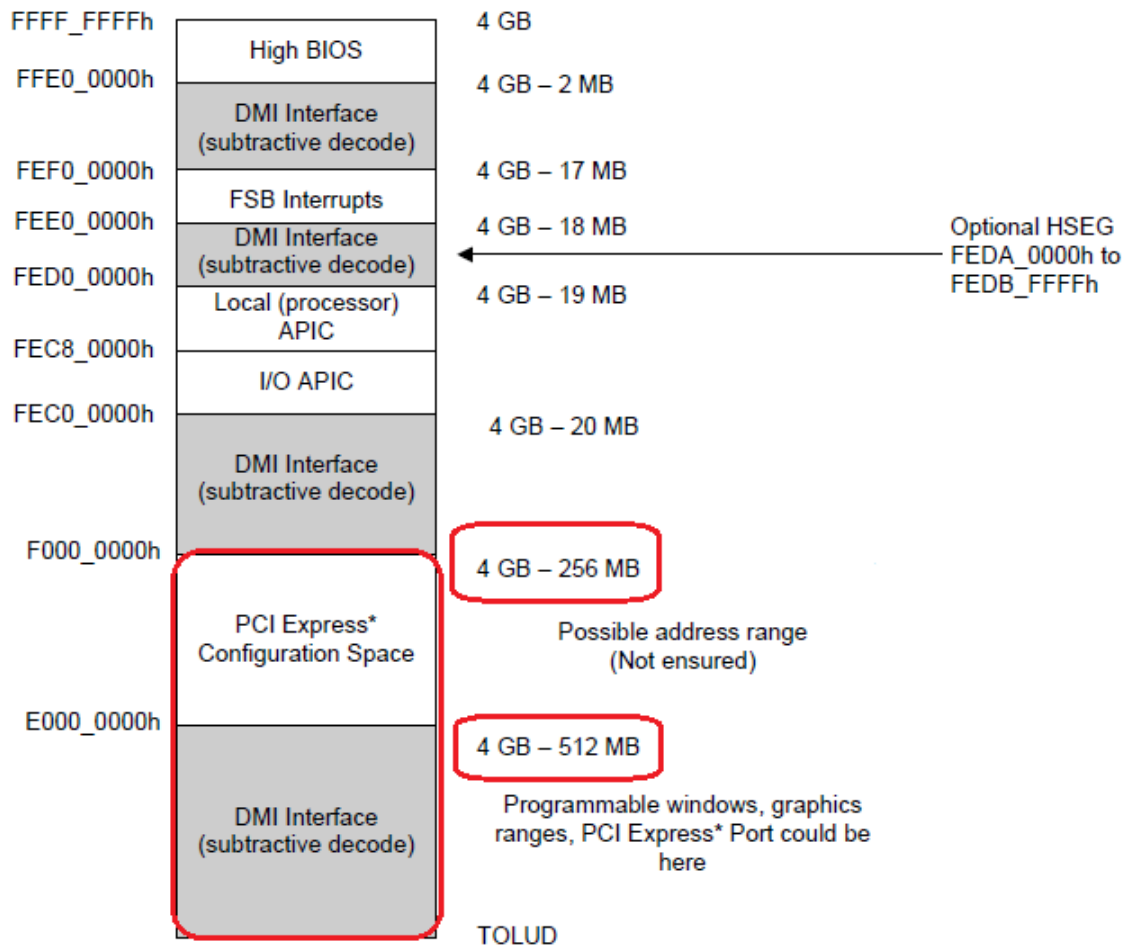
## Phenomenon

Please see general information shows 3.24GB for RAM,

This let user cause confusing information that why my 4G RAM modules only shows 3.24GB.



## Cause



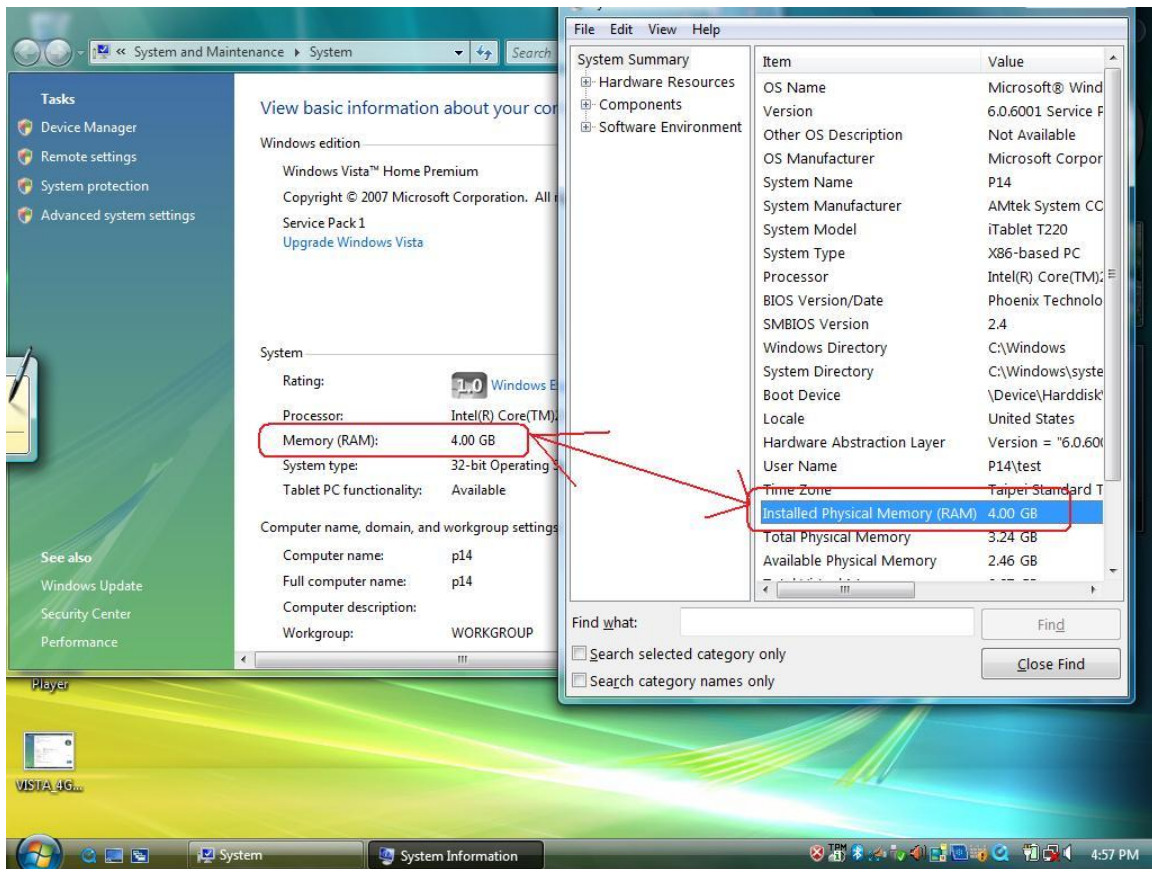
Please see above explained via diagram, in Intel chipset including MMIO which High BIOS、DMI interface、FSB interrupts、APIC、PCI Express address. These are needed for system to do basic operation and distribute memory address for that.

CPU will distribute PCI Express configuration and DMI interface memory hole remapping about 0.75GB(256MB plus 512MB).

## Improved method

Please upgrade OS version to VISTA or WINDOWS7 (Best is WINDOWS7),  
You will see size of phicycal memory showing 4GB at system information center.

In VISTA,



In WINDOWS7,

The image shows two overlapping windows from a Windows 7 desktop. The left window is 'System Information', displaying system details in a table. The right window is 'System' in the Control Panel, showing basic computer information.

Item	Value
OS Name	Microsoft Windows
Version	6.1.7600 Build 7600
Other OS Description	Not Available
OS Manufacturer	Microsoft Corporation
System Name	rrr-PC
System Manufacturer	AMtek System CO.,L
System Model	iTablet T220
System Type	X86-based PC
Processor	Intel(R) Core(TM)2 C
BIOS Version/Date	Phoenix Technolog
SMBIOS Version	2.4
Windows Directory	C:\Windows
System Directory	C:\Windows\system32
Boot Device	\Device\HarddiskVol1
Locale	United States
Hardware Abstraction Layer	Version = "6.1.7600.16385 x-ww
User Name	rrr-PC\rrr
Time Zone	Pacific Standard Time
Installed Physical Memory (RAM)	4.00 GB
Total Physical Memory	3.24 GB
Available Physical Memory	2.60 GB
Total Virtual Memory	6.48 GB
Available Virtual Memory	5.83 GB
Page File Space	3.24 GB
Page File	C:\pagefile.sys

The 'System' Control Panel window displays the following information:

- Control Panel Home
- View basic information about your computer
- Windows edition: Windows 7 Home Premium
- Copyright © 2009 Microsoft Corporation. All rights reserved.
- System: Rating: System rating is not available; Processor: Intel(R) Core(TM)2 CPU U7500 @ 1.06GHz 1.07 GHz; Installed memory (RAM): 4.00 GB (3.24 GB usable); System type: 32-bit Operating System; Pen and Touch: Pen and Single Touch Input Available
- Computer name, domain, and workgroup settings: Computer name: rrr-PC; Full computer name: rrr-PC; Computer description: ; Workgroup: WORKGROUP
- Windows activation: Windows is activated; Product ID: 00359-OEM-8992687-00124