Keeping IT Managers and Business Owners informed of latest developments

## SYSTEM HARDWARE:

### Compucon Debuts our First Eye Spy Machine...

Security surveillance is one of many applications that computers have successfully and economically competed with conventional analog approaches. The incorporation of SSE2 in NetBurst micro-architecture as deployed in Pentium 4 processors is a catalyst of this evolution. Compucon has researched into this area and tested 2 major offerings from leading developers. It is now officially releasing the first Compucon iSpy Station. Detection, display, archive and playback quality is very high. It uses MPEG4 to effectively compress images into the smallest files that are practically achievable. It provides water-marking on images to eliminate foul plays. It incorporates a watchdog to restart the computer if it hangs for whatever reasons. It provides individual configuration of cameras and monitoring over LAN or the Internet on TCP/IP protocols. The Compucon iSpy has a high level of quality based on thorough research and testing. Contact the editor for more information.

### A Quantum Leap Granite Bay Technologies...

Intel has recently released a new chipset called Granite Bay to motherboard manufacturers (Note: nVidia has released nFomce2 to compete). This chipset incorporates the latest and greatest technologies such as Dual Channel DDR, AGP 8X, Hyper-threading and Serial ATA. No doubt many computer suppliers, international or local, would like to be the first off the block to take the limelight. Compucon New Zealand will not be in a hurry. New technologies do not come out truly ready for deployment in the IT industry (802.11b is a good case for reference). There is a price for being the first, and the price can be a fatal one. We will accept to supply a Granite Bay system if our customers fully appreciate the risk and price. At this stage, stay with Superhawk based on i845GE chipset if you are an Intel house. This chipset will take 400MHz and 533MHz FSB P4 processors with or without Hyper-threading. This Compucon model has a 5 month production longevity and is backward compatible with a lot of older technologies- it is solid.

### Diamond Gaining More Carats...

Compucon Diamond has evolved from Pentium III based to P4 based due to the demise of supply of the former processors. The chipset is i845GL initially and will evolve to i845GV. GL supports P4 and Celeron CPU with 400MHz FSB only, whereas GV supports 400MHz and 533MHz. Along with this change, Diamond uses 256MB DDR as the entry level. This new Diamond in Casper (dual tone small footprint case) has more Carat than before to justify the change.

### Jasper Holds the Value Forte...

Market memory adoption has firmly moved from SDRAM to DDR (double data rate SDRAM), and this has created a big price gap between the 2 generation of memory modules. Jasper stays with SDRAM technology and this factor is responsible for a substantial price advantage of Jasper. Is SDRAM half the performance of DDR? No, nothing of this level at all. Memory is part of the computational sub-system of the computer, and the total effect of the memory change is only a couple of percents. Jasper has bee widely used by many corporate companies and its performance and stability has not been challenged. It is a good value machine produced by Compucon with a 0% workmanship and up to 2% component defect mandate.

### High Availability Server Platforms...

Athlon MP (multi-processor as distinct from XP that is single-processing) has been available for about a year and has not posed any challenge to the server throne that Intel Xeon owns. Athlon MP does have its price performance value, but it is not really designed for backend server computing that require a high level of user transaction handling. Intel Xeon supports Hyper-threading (1 CPU performing 2 applications simultaneously) and dual channel memory transfer. Input and output is provided by 3 PCI-X buses each of 1024MB/s bandwidth (as opposed to one single PCI bus of 132MB/s). Compucon implements these latest technologies on Grand Champion and Supermicro platforms. The end product is solid and of high performance. Compucon offers a variety of servers- Quad Xeon (Enterprise), Dual Xeon, 2U/1U, Light Xeon (Platinum series), and Dual Athlon(Titanium Series).


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# CNZ Corporate Newsletters
Year 2003 Quarter1

## EDITORIAL:

Happy New Year. These Q1 newsletters attempt to transfer a large amount of current and filtered technical and business information to our clients. On top of Best Practices, Software Platforms, and System Hardware Standards; we also include a selection of Business Desktop Maintenance Guidelines for your reference. You do not need an expert to maintain your desktop computers, provided you have the time and discipline to do it. Enjoy the reading.

### CNZ Value Propositions

Supplying a server, installing a network, setting up an accounting software etc are the easy part. Many IT service companies can do the work without hesitation. The challenge is in the way vendors deliver the solution. Many vendors just do the work as they were told; just like a tradesman. No, IT is closely related to business operation and competitive advantages. We need IT consultants who are trained to analyse, plan and implement. CNZ is founded on this footing. CNZ has re-defined IT solution delivery to the following criteria that other vendors may not have realised.

- Fitness for Purposes
- Total Cost of Ownership
- Business Focussed
- Real-life Experience
- Code of Ethics

### CNZ Personnel Profile 1

This is the first of a series of profile introductions. TN Chan is the Chief Executive of CNZ. He was educated in Hong Kong, has a degree in Mechanical Engineering and was a post-graduate Swire Scholar. He migrated to Wellington and worked for ECNZ at the start of 1986. When he resigned, he held the position of Senior Consultant and Design Manager in SCADA (supervisory control and data acquisition). His achievements included commissioning a coal-fired 250W power plant simulator in Hong Kong, design management for Ohaaki Geothermal Power Station and Waireki Area Control, performing Haka as a New Zealand representative to an international audience of 2000 in Singapore and publication of 5 technical papers in domestic and international electricity power industry conferences. He moved to Auckland in 1992 to start Modern Technology NZ Ltd and achieved ISO-9002 certification in 1995 as well as several press awards for high system performance and innovative system designs.

TN is currently a Charter Electrical Engineer (UK) and a Registered Professional Engineer (NZ). He is the General Manager of Compucon New Zealand and R&D Director of Compucon Australia. He has the view that the IT industry is not healthy and most businesses have been ill-served. CNZ is an effort to provide a professional framework to its member practitioners.

### Major Compucon Reference Sites...

The following sites are top sites in New Zealand running Compucon servers, workstations and desktop computers in reasonable quantity and with full satisfaction. They have kindly agreed to be Compucon reference sites. Kindly contact the editor if you allow us to include your company as a CNZ or Compucon reference site.

- Television New Zealand Limited (Top TV stations in New Zealand)
- The Radio Network of New Zealand (Top radio group in New Zealand)
- General Dynamics Corporation Limited (World class process monitoring technology supplier)
- Diagnostic Medlab Limited (Top medical laboratories in New Zealand)
- Aarque Graphics New Zealand Limited (Top large format printer specialists in New Zealand)
- Esphion (World class Internet security technology supplier)
- Prime Television New Zealand Limited (Major TV station in New Zealand)

### Share your Joy with Peers...

If you feel that these CNZ newsletters are informative and helpful, we would be grateful if you can pass them onto your peers or let us have their contact details for inclusion onto our mailing list.

Name of Peer Company:

Contact Person Name there:

Phone or Email or Street Address:

Yourself is:
Of Company:


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