

# IRG Technology, Media and Telecommunications and Life Sciences Weekly Market Review



Week of 23 March - 29 March 2003

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| Equity Market Indicators  |                              |                        |                      |                      |                      |
|---------------------------|------------------------------|------------------------|----------------------|----------------------|----------------------|
| Index                     | Closing Level<br>(3/28/2003) | % Change<br>1 Week Ago | % Change<br>1/1/2002 | % Change<br>1/1/2003 | % Change<br>2002 Low |
| S&P 500                   | 863.50                       | -3.6%                  | -25.2%               | -1.9%                | 11.8%                |
| Dow Jones Industrial Avg. | 8,145.77                     | -4.4%                  | -19.1%               | -2.3%                | 12.6%                |
| Dow Jones Tech. Index     | 231.67                       | -5.0%                  | -31.3%               | 0.9%                 | 29.3%                |
| Dow Jones Telecom. Index  | 138.07                       | -2.1%                  | -33.8%               | -6.6%                | 18.3%                |
| NASDAQ Composite          | 1,369.60                     | -3.7%                  | -30.8%               | 2.6%                 | 24.2%                |
| The Street.com Net        | 93.52                        | -2.1%                  | -52.2%               | 9.2%                 | 51.1%                |
| Japan Nikkei 225          | 8,280.16                     | 1.0%                   | -23.8%               | -3.5%                | 0.8%                 |
| Japan TOPIX               | 817.92                       | 1.3%                   | -22.4%               | -3.0%                | 0.9%                 |
| Korea KOSPI Composite     | 556.33                       | -3.4%                  | -23.3%               | -11.3%               | -6.0%                |
| Korea Kosdaq              | 39.28                        | -2.0%                  | -47.3%               | -11.5%               | -11.9%               |
| Taiwan Stock Exchange     | 4,477.01                     | -2.4%                  | -20.1%               | 0.6%                 | 17.3%                |
| Singapore Straits Times   | 1,318.43                     | -0.6%                  | -18.9%               | -1.7%                | -1.3%                |
| Hong Kong Hang Seng       | 8,863.36                     | -3.4%                  | -21.9%               | -4.9%                | 0.2%                 |
| Hong Kong GEM             | 111.18                       | -0.6%                  | -46.6%               | 0.7%                 | 4.3%                 |
| China Shanghai (A-Share)  | 1,560.15                     | 1.2%                   | -6.9%                | 9.9%                 | 13.7%                |
| China Shenzhen (A-Share)  | 442.10                       | 0.6%                   | -9.8%                | 7.8%                 | 13.3%                |
| China Shanghai (B-Share)  | 121.66                       | 0.4%                   | -28.0%               | 7.2%                 | 9.3%                 |
| China Shenzhen (B-Share)  | 200.07                       | 1.5%                   | -23.5%               | 7.0%                 | 8.3%                 |

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## Technology, Media, Telecommunications and Life Sciences Market Activity

### NASDAQ/NYSE TMT and Life Sciences IPO Filings

| File Date | Issuer | Industry Sector | Size (\$MM) | Description | Book-Runner | Co-Manager |
|-----------|--------|-----------------|-------------|-------------|-------------|------------|
| N/A       |        |                 |             |             |             |            |

### NASDAQ/NYSE Equity Markets: TMT and Life Sciences IPO Pricing

| Pricing Date | Issuer (Exchange) | Description | Size (US\$MM) | Offer Price | Price on 3/28/03 | % Change From Offer |
|--------------|-------------------|-------------|---------------|-------------|------------------|---------------------|
| N/A          |                   |             |               |             |                  |                     |

### Asian Equity Markets: TMT and Life Sciences IPO Pricing

| Pricing Date | Issuer (Exchange)                        | Description  | Size (US\$MM) | Offer Price | Price on 3/28/03 | % Change From Offer |
|--------------|--|--|---------------|-------------|------------------|---------------------|
| 3/26/03      | Global Sun Technology [4910.tt] (Gretai) | Provides OEM contract manufacturing services to equipment suppliers in the computers, communications and electronics fields. | \$26.1        | NT\$72      | NT\$58.5         | -18.8%              |
| 3/25/03      | We've Inc [2360.jp] (Jasdaq)             | Plans, manufactures and distributes motion pictures and animated movies for movie theatres and television                    | \$4.1         | ¥120,000    | ¥124,000         | 3.3%                |
| 3/25/03      | Hyweb Technology [5212.tt] (Gretai)      | Provides knowledge management, e-commerce and financial institutions chip card applications.                                 | \$1.6         | NT\$32      | NT\$31.7         | -0.9%               |

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## Weekly Highlights

### International

#### *Telecommunications*

- **Five Asia-Pacific telecommunications operators form an alliance** in a bid to promote broadband usage among their wireless subscribers. The five - Korea Telecom, China Netcom, Maxis of Malaysia, Singapore-based StarHub and Telstra of Australia - are also working on a common platform to allow subscribers access to broadband services across different networks.

#### *Hardware*

- **Cisco Systems has started a big Asian push for its new storage-networking (SAN) gear**, claiming online travel agency Hutchison-Priceline as one of its biggest users in Greater China. SAN switches are mostly integrated with the huge enterprise storage systems of manufacturers such as EMC, IBM, Hewlett-Packard and Hitachi Data Systems (HDS).

#### *Information Technology*

- **Few US and European technology chiefs to increase spending** following a quick resolution of the US war with Iraq, according to a recent survey by Merrill Lynch. 17% of respondents said they would slow down their current spending levels "if the Iraq war starts." However, if the war ends quickly, 90% of the technology chiefs surveyed said their IT spending wouldn't accelerate from current levels.

### Japan

#### *Telecommunications*

- **NTT access fee boost will cut profits at other telecoms.** The two NTT regional carriers will raise their connection fees by 5% in fiscal 2003 and introduce a burden-sharing adjustment system. With more and more people opting for cheap Internet telephony, the telecom companies hesitate to offset the hike by a rise in the fixed-line fees they charge to subscribers.

#### *Mobile / Wireless*

- **NTT develops cell phone equipped with GPS technology.** One push on a button on the handset enables users to see on their screen a map showing where they are, send the map over the Internet to other cell phone users and store the map into the phone's memory. The mova F661i phone incorporates a GPS antenna and provides information about users' locations via a satellite.
- **NTT DoCoMo develops wristwatch-type personal handyphone system (PHS),** planning to market a limited number over the Internet from April. The product, dubbed "WRISTOMO," normally serves as a wristwatch, but a push of a button instantly transforms it into a PHS handset. Japan's top mobile phone operator will determine whether to expand production, depending upon demand.
- **NEC aims to quintuple its overseas shipments of cellular phone handsets** next fiscal year to 5 million units compared with 1 million this term. NEC plans to double its operating profit to 200 billion yen next fiscal year from this fiscal year's estimate.

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- **Sony EMCS develops a Bluetooth transceiver module** for cellular phones and other digital devices. Integrating peripheral circuitry with a baseband IC (integrated circuit) and a high-frequency radio IC developed by the US firm Silicon Wave, the new Bluetooth module is small and consumes just 40 milliamperes, around 20% less than comparable products from other companies.

## *Hardware*

- **eMachines raises first-year sales goal for Japan from 100,000 computers to 125,000.** The company has enjoyed strong sales of desktop models priced under 50,000 yen, not including monitors. The low price has attracted attention and has resulted in stronger-than-anticipated demand. The company, which has an exclusive sales contract with Tsukumo, began marketing in Japan at the end of 2002.
- **NTT Electronics markets wavelength router**, which controls the routing of signals in optical communications without first converting the optical signals into electric signals. The AWG Router, priced at 1.25 million yen, uses wavelength multiplexing technology to control the routing of signals from its eight input ports to its eight output ports.

## *Information Technology*

- **IT breakdowns plaguing Japanese companies.** 3,200 ATMs operated by Resona were out of order last week. 2002 saw a number of bank system failures: UFJ Bank, Mizuho Financial Group, and Sumitomo Mitsui Banking. Tokyo's air traffic control center suffered a breakdown March 1 that caused the cancellation of 250 flights. The strain of cost-cutting is apparent in all cases.
- **Justice Minister Mayumi Moriyama seeks ways to criminalize the creation of computer viruses** and other online misconduct and how to facilitate investigation of such acts. The envisaged penalties are up to three years in prison or 500,000 yen in fines for people who write, spread and infect computers with viruses, and up to two years in jail and 300,000 yen in fines for those acquiring and storing them.

## **Korea**

### *Mobile / Wireless*

- **Government's plan to introduce LBS (location-based service) raises privacy issues.** The MIC's revision would make it obligatory for mobile handset makers to embed LBS functions in their products, sparking concerns that the locations of mobile users that can be pinpointed via an LBS system could be used to compromise the privacy of that user.

### *Internet*

- **Head of Hanaro Telecom under pressure to step down** as the company's largest shareholder opposed his reappointment. LG Group, which owns a 13 per cent stake in Hanaro through affiliates such as Dacom Corp and LG Telecom, said chairman Shin Yun-sik should take the blame for the losses in his six-year tenure.

### *Semiconductors*

- **Hynix Semiconductor faces the imposition of heavy import duties** in both European and United States markets. The European Commission have found the chipmaker guilty of receiving illegal government aid and proposed duties of 30 to 35 per cent on shipments of its dynamic random access memory chips to the European Union. Hynix faces a similar probe in the US.

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## China

### *Telecommunications*

- **MII orders fixed-line carriers to dismantle some of their wireless local-loop operations.** The MII criticised subsidiaries of China Telecoms and China Netcom for using 450-megahertz code division multiple access (CDMA 450) technology to operate Xiaolingtong city-wide wireless services without permission. It gave the companies a month to rectify the situation.
- **MII lifts its forecasts on fixed-line subscriber growth for the next four years.** The MII recently released China Telecom Market Development Guide 2003 estimates that between 32 million and 35 million new fixed-line subscribers will be added each year until 2006. This represents an average annual growth rate of almost 13 per cent compared with earlier forecasts of growth just short of 10 per cent.

### *Mobile / Wireless*

- **China Unicom to soft launch high-speed CDMA network,** aiming to snatch high-end users from rival China Mobile. The 2.5-generation 1X network would be offered first in major coastal cities such as Shanghai, Beijing and Suzhou. Rival China Mobile, which operates a GSM network, launched multimedia services via a 2.5-generation GPRS network in October last year.
- **Sina.com and other Chinese Internet companies offer IM updates on the Iraq war.** Sina said traffic on its SMS was 10 times the average level the day the attack began. The company charges from eight yuan to 72 yuan a month to subscribers for war news updates. Chinese increasingly turn to Sina, Netease.com and Sohu.com to supply them with news, sports scores and dating services.
- **Ericsson does not see any turnaround in demand from China.** China is the world's largest mobile telecommunications market. Ericsson, a former Swedish industrial flagship, has reported losses for nine quarters in a row amid weak demand from debt-burdened telecom operators unwilling to invest in new networks or infrastructure upgrades during the past few years of tepid global economic growth.

### *Software*

- **Sun Microsystems to donate \$2 billion in software for education in China** and make another deal with Cadence. The Sun Academic Initiative is comprised of \$2 billion worth of Sun technology for academic institutions in China. Sun also established in Beijing a scholarship program for the Zhong Cuan Cun - Cadence Institute of Software Technology.

### *Semiconductors*

- **Infineon extends deal with Semiconductor Manufacturing International Corp (SMIC)** to boost its output of computer memory chips. The move, which builds on a production deal agreed between the two companies in December, reflects Infineon's strategy of concluding manufacturing agreements with foundry partners, allowing it to increase output while keeping fixed costs down.

### *Venture Capital / Investments*

- **China eases rules for foreign IPOs of offshore China companies.** Foreign firms whose main operations are in China will no longer need approval from the local securities regulator to list or issue new shares overseas. The elimination of the approval requirement may make it easier for Chinese companies to set up offshore entities in places like Bermuda or the Cayman Islands, for overseas listings.

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## *Hardware*

- **Huawei Technologies acknowledges that a small portion of software was apparently copied** from Cisco Systems, but the Chinese company said it is removing the tainted software from its routers globally. Huawei said the copying involved only a small portion of its software, less than 2% of the 1.5 million lines of code.

## **Taiwan**

### *Mobile / Wireless*

- **Mitac to announce its first deal to provide smartphones** powered by Microsoft's Windows software for a wireless operator in the next three months. Mitac's first smartphone customer will be an Asian operator, most likely in Taiwan or elsewhere in greater China. He said at least one announcement was likely in the second quarter of this year, but declined to name the likely operators.

### *Hardware*

- **Chi Mei Optoelectronics and Quanta Display cancel global share issue plans**, blaming market instability following the US war on Iraq. Chi Mei decided to cancel a planned depositary receipts issue to raise NT\$20 billion (about \$575 million). Quanta Display will also cancel its planned issue of 350 million to 450 million global depositary receipts due to market instability following the US-Iraq war.
- **Acer expects 2003 net profit to fall 31 per cent** as poor market conditions mean it would not sell as many shares in affiliated companies as last year. Acer predicted this year's net profit at NT\$6 billion (about \$172 million), versus NT\$8.65 billion last year, though the firm still expects an improvement in its core personal computer business this year as restructuring efforts pay off.

## **Singapore / Malaysia**

### *Venture Capital / Investments*

- **Singapore to remain one of the world's top 10 investment havens** over the next five years - picking up from seventh to sixth in the rankings - according to the Economist Intelligence Unit (EIU). Forecasts by EIU see Singapore garnering annual average FDI inflows of US\$8.3 billion from 2003 to 2007. That will be barely one per cent of the world total.

## **Hong Kong**

### *Telecommunications*

- **Hutchison Whampoa said to be working out a "proxy arrangement" with Global Crossing** that would see it give up the right to appoint directors to the board of the bankrupt undersea cable operator. The new deal does not appear to affect Singapore Technologies Telemedia, Hutchison's strategic partner in its \$250 million bid for Global Crossing last August.

### *Mobile / Wireless*

- **Sunday expects to become profitable this year** after cutting its loss last year by 44.62 per cent. Hong Kong's smallest mobile operator still reported a bigger than expected net loss of HK\$117.26 million for



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last year, due to one-off restructuring costs of HK\$26.6 million. Sunday, which cut its staff by 30 per cent from 976 last year to 687, made its first monthly profit in January.

- **SmarTone Telecommunications rejects speculation about parent Sun Hung Kai Properties.** Two weeks ago SmarTone signalled a possible dividend payout two months after SHKP bought British Telecom's 20.75 per cent for HK\$1 billion, but chief executive Douglas Li said it was not intended to finance the parent's purchase.

## United States / Canada

### *Life Sciences*

- **Novartis buys 51% stake in Idenix Pharmaceuticals** for \$255 million, entering the fast-growing field of antiviral medicines. Novartis could pay Idenix shareholders as much as an additional \$357 million for the stake, depending on whether Idenix's potential hepatitis treatments reach certain stages in the regulatory process and approval.

### *Software*

- **Corel invites a takeover bid from Vector Capital**, a major new shareholder, and said it would also explore other alternatives. The announcement comes two weeks after Microsoft sold its 20% stake in Corel to Vector CC Holdings, an affiliate of San Francisco venture capital firm Vector Capital. Vector said it was paying about \$12.9 million for the stake.
- **Red Hat posts narrower loss for fiscal fourth quarter** amid a 39% jump in revenue. For the quarter ended Feb. 28, the provider of software and services for the Linux computer-operating system reported a net loss of \$56,000, or break-even on a per-share basis, compared with a net loss of \$42.3 million, or 25 cents a share, a year earlier.
- **BEA Systems authorizes the repurchase of up to \$100 million of common stock** as previous buyback plan winds down. The business software company said it has repurchased, since September 2001, about 11.8 million shares for about \$91 million under a \$100 million authorization. The pace has quickened recently, with about 4.9 million of the repurchases occurring since the end of January.
- **Microsoft names Kevin Johnson group vice president of sales, marketing and services.** Mr. Johnson, who had been senior vice president of Microsoft Americas, will succeed Orlando Ayala, who becomes group vice president of Microsoft's Worldwide Small and Mid Market Solutions and Partners group. Separately, **Microsoft named Jean-Philippe Courtois as chief executive of its Europe, Middle East and Africa operations.** Mr. Courtois will retain his responsibilities as president of Microsoft EMEA, a position he has held since July 2000, and senior vice president of Microsoft.
- **Click Commerce to acquire Allegis.** Through the acquisition, Click Commerce said it would extend its reach into the high-technology and financial-services markets and add clients such as Charles Schwab and Lexmark International. Allegis, San Francisco, is a provider of software and services that enable multiple sellers to work together to satisfy the needs of a buyer.
- **Goldman Sachs lowers software earnings estimates for the sector for the second time in March**, citing economic weakness and the U.S. war in Iraq. Analyst Rick Sherlund first reduced his estimates for the sector March 13, citing the "threatened outbreak of hostilities" between the U.S. and Iraq. At that time, he generally cut estimates by 1 to 2 cents a share for the three months ending March 31.



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## *Internet*

- **Reuters completes tender offer for the shares of Multex.com**, at a price of \$7.35 per share in cash. Approximately 29,860,015 Multex shares were tendered, including approximately 2,692,459 Multex shares covered by notices of guaranteed delivery. The number of shares tendered represented more than 97.3% of the 32.7 million outstanding shares of Multex.

## *Semiconductors*

- **Conexant Systems to spin off Mindspeed Technologies** Internet-infrastructure unit. Conexant shareholders will receive a dividend comprised of all of the outstanding shares of Mindspeed on a pro rata basis. Mindspeed will receive an initial capital funding of \$100 million in cash from Conexant, plus an additional \$50 million cash in contingent financing. Conexant will receive warrants for up to 20% equity ownership of Mindspeed.

## *Hardware*

- **Dell to unveil branded printers.** The printers will be unveiled this week and would include a multifunction printer and two laser jets. In September, the Round Rock, Texas, computer maker announced a partnership with Lexmark International to sell Dell-branded printers and ink cartridges. Dell is known for entering markets and slashing prices.
- **Cisco Systems to buy Linksys Group for about \$500 million in stock** to enter the competitive consumer home-networking gear market. The acquisition of privately held Linksys, Cisco's biggest deal since May 2000 and its third this year, is part of the company's strategy to target growth in the fast-growing markets of wireless, security, storage networking and Internet voice and data transmission.
- **IBM to manufacture a high-end graphics chip for NVidia.** The agreement is said to be valued at hundreds of millions of dollars over several years. The deal further bolsters the PC maker's presence in the computer and videogame market. IBM already makes a chip for Nintendo's Game Cube system, and is currently co-designing a chip with Sony.

## *Media, Entertainment and Gaming*

- **USA Interactive closes acquisition of Entertainment Publications** from a group of investors led by the Carlyle Group for \$360 million in cash. Entertainment Publications sells annual memberships for entertainment and shopping discounts. The deal is expected to contribute to USA Interactive's 2003 adjusted earnings.
- **Liberty Media to purchase an additional \$500 million in News Corp.** nonvoting stock, a move that signals Liberty won't fight News Corp. with its own bid for control of satellite broadcaster DirecTV. The decision removes a cloud that has hovered over the maneuvering for control of DirecTV parent Hughes Electronics.
- **Movielink to expand content to include independent films** and mount a new marketing effort five months after its initial launch. Movielink struck a deal to offer films from independent film company Artisan Entertainment, which was behind "The Blair Witch Project." To boost visibility among consumers, it plans to launch a multimillion-dollar advertising campaign mostly on the Web.

## *Information Technology*

- **Technology groups have approached EDS** in recent months about strategic relationships involving a large minority investment or even outright acquisition. Microsoft was said to be interested in a minority

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investment. Meanwhile, HP, though pursuing a relationship with EDS, is thought unlikely to attempt a full acquisition while it is still digesting its acquisition of Compaq

- **IBM to provide Canada Life Financial with insurance software applications** that will be delivered on demand, paid for according to the volume of insurance policies processed. IBM's new Insurance Solutions Center specializes in the design, development and management of software applications for insurance providers.
- **Start of the Iraq war causes a surge in audio, video and online conferencing.** ACT Teleconferencing saw a 10% to 15% increase in video conferencing and about a 10% increase in audio conferencing over its normal expectations for the US and Europe. Genesys Conferencing saw reservations, minutes and revenue rise 25% last week versus the week before.
- **Computer Sciences (CSC) to manage technology operations for Motorola,** in a \$1.6 billion deal. CSC will run Motorola's desktop and mid-range computer technology worldwide, including help-desk and networking. About 1,300 Motorola employees will become CSC employees under the agreement. CSC will also acquire certain Motorola technology and network assets.

## Europe

### *Mobile / Wireless*

- **Vodafone and Orange invest \$3.5 million in SavaJe Technologies,** a start-up based in Massachusetts that is developing an operating system to control phones with advanced features, such as Internet browsers, video players and other multimedia applications. The main suppliers of such software are Symbian, a London consortium part-owned by Nokia; Microsoft; and Palm.

### *Software*

- **SAP launches small and medium-sized business software initiative.** The German company based in Walldorf said that it would partner with American Express to offer software and services to companies with tens and hundreds of employees and revenue of less than \$100 million. SAP has traditionally delivered its applications on Microsoft's Windows operating systems.

### *Media, Entertainment and Gaming*

- **Nintendo aims to sell one million of its new Game Boy Advance SP hand-held units** in Europe by end May, attracting a new older audience and upgrades from existing users. The Game Boy Advance SP will be launched in Europe on Friday with 400,000 units available initially. Preorders from retailers account for between 30% and 40% of that total.

### *Information Technology*

- **H-P receives \$300 million contract for Northern Ireland's e-learning project** to connect students to the Internet. The contract is for five years, with an option for an additional two years. The computer maker, which had 2002 revenue of \$56.59 billion, received an initial payment of \$100 million for the deal.

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## Other Economic Data

| Currency Exchange Rates |            |                              |                        |                      |                       |                          |
|-------------------------|------------|------------------------------|------------------------|----------------------|-----------------------|--------------------------|
| Currency                | Units      | Current Rate<br>(on 3/28/03) | % Change<br>1 Week Ago | % Change<br>1/1/2002 | % Change<br>1/1/ 2003 | % Change<br>Last 12 Mth. |
| Japanese yen            | ¥/US\$     | 119.8900                     | 1.5%                   | -8.9%                | -0.9%                 | 10.7%                    |
| Hong Kong dollar        | HK\$/ US\$ | 7.7986                       | 0.0%                   | 0.0%                 | 0.0%                  | 0.0%                     |
| Chinese renmenbi        | RMB/ US\$  | 8.2771                       | 0.0%                   | 0.0%                 | 0.0%                  | 0.0%                     |
| Singapore dollar        | S\$/ US\$  | 1.7691                       | 0.2%                   | -4.2%                | -2.0%                 | 4.2%                     |
| South Korean won        | KRW/ US\$  | 1255.3000                    | -0.6%                  | -4.4%                | -5.5%                 | 5.7%                     |
| New Taiwan dollar       | NT\$/ US\$ | 34.7895                      | 0.0%                   | -0.6%                | -0.4%                 | 0.5%                     |
| Australian dollar       | US\$/A\$   | 0.6010                       | 1.8%                   | 17.9%                | 7.0%                  | 12.8%                    |
| New Zealand dollar      | US\$/NZ\$  | 0.5509                       | 0.3%                   | 32.4%                | 5.0%                  | 25.1%                    |
| Philippine peso         | PHP/ US\$  | 53.6000                      | 1.5%                   | 3.8%                 | 0.0%                  | -4.9%                    |
| Euro                    | US\$/€     | 1.0779                       | 2.4%                   | 21.2%                | 2.7%                  | 23.6%                    |
| British pound           | US\$/£     | 1.5740                       | 0.7%                   | 8.3%                 | -2.2%                 | 10.4%                    |

| Fixed Income Prices and Yields |          |                      |        |            |        |             |        |
|--------------------------------|----------|----------------------|--------|------------|--------|-------------|--------|
| Note                           | Currency | Current (on 3/28/03) |        | 1 Week Ago |        | 4 Weeks Ago |        |
|                                |          | Price                | Yield  | Price      | Yield  | Price       | Yield  |
| US 30-year                     | US\$     | 106.9688             | 4.91%  | 104.9688   | 5.04%  | 110.9375    | 4.67%  |
| Japan 30-year                  | ¥        | 121.0555             | 1.20%  | 120.5605   | 1.22%  | 117.9910    | 1.32%  |
| Hong Kong 10-year              | HK\$     | 121.8752             | 3.78%  | 121.2383   | 3.88%  | 122.8795    | 3.66%  |
| China (10/2027)                | US\$     | 140.5957             | 4.70%  | 136.4533   | 4.93%  | 118.0978    | 6.07%  |
| Singapore 10-year              | S\$      | 117.8540             | 1.96%  | 116.9939   | 2.09%  | 117.8756    | 1.99%  |
| South Korea 10-year            | US\$     | 119.9310             | 4.42%  | 118.9895   | 4.62%  | 122.5627    | 3.95%  |
| Australia 15-year              | A\$      | 108.4495             | 5.40%  | 107.1380   | 5.57%  | 111.2920    | 5.07%  |
| New Zealand (07/2009)          | NZ\$     | 105.8116             | 5.88%  | 105.1392   | 6.01%  | 107.4914    | 5.58%  |
| Philippines 20-year            | PHP      | 133.1526             | 13.52% | 131.4684   | 13.70% | 129.4349    | 13.94% |
| India 20-year                  | INR      | 140.0662             | 6.72%  | 140.6628   | 6.67%  | 139.3010    | 6.79%  |
| UK 30-year                     | £        | 94.8410              | 4.57%  | 92.8279    | 4.70%  | 97.4220     | 4.41%  |
| Germany 30-year                | €        | 108.9830             | 4.90%  | 107.7712   | 4.98%  | 112.0379    | 4.71%  |

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