War Tech

The technologies of war

Iraq war tools

NAFID IMRAN AHMED

HE deadliest warfare I have ever experienced in my short life is currently taking place. Twelve years have passed since the last US-led war with Iraq occurred. That is just a blurry memory to me. But in terms of war technologies light years have passed. Military officials and experts are quoting 'Iraq Invasion' as the most IT-intensive military campaign in human history.

"There are more computers on the battlefield than ever before" said an operations officer for the US Army. They call it a "network-centric warfare". The US mobile headquarters facility includes a high-speed fiberoptic network backbone that can deliver video over IP to the desktop, as well as direct links to the hundreds of intelligence and surveillance systems and deployed forces in and around the Persian Gulf.

The US government has been spending billions of dollars into developing new wartime technolo-

Tomahawk missile: looks nice but deadly

I have spent countless hours locating sites that I find

useful. It would be more than a

little upsetting to lose all those

hard-earned bookmarks. What

expires unexpectedly or I switch

So, how do you save them?

tioned your browser I will show

will happen if my hard drive

computers. Is there anyway I

asy! As you have not m

you how to do it in Internet

If you use Internet

Favorites folder, located under

vour Windows Directory. (The

fastest way to get there is to right-click your Start button

Explorer, just head to your

Explorer and Netscape

Explorer:

Dr. Tech

Dear Dr. Tech

can save them?



Gulf War 12 years ago.

Some of the latest technology includes satellite-guided global positioning systems, transponders, videoconferencing. But no matter how advanced technologies are used in war, they will always be termed as

and select **Explore**. You'll end

up, by default, in your Windows

Start Menu folder, just scroll up

click the Favorites Folder, and

should all fit on a single floppy,

select Send to, 3 1/2" floppy.

thousand bookmarks, they

For those who use

scape Navigator, vou

export your bookmarks to an

1. Open Netscape and hit the

2. From the resulting screen, hit

dailystartech@yahoo.com

Bookmarks menu, Manage

File, Export Bookmarks.

Bookmarks dialog box.

3. Stick a 3.5 floppy in and

navigate to it via the Export

Slip in a floppy disk, right-

to the Favorites folder).

Unless you have several

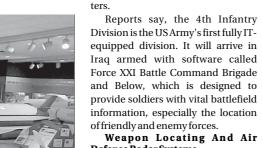
Netscape Navigator 6:

HTML file. Here's how

Bookmarks.



vehicles, missiles and munitions and surface mobility applications. GPS allows direct exchange of informaeapon-locating radar systems and tion among soldiers on the front lines, rather than requiring information to be routed through headquar-



Defense Radar Systems

the 'technology of destruction' and a

Here is a snap of the weapons that

Global Positioning System (GPS)

The Global Positioning System

(GPS) has improved a lot since Oper-

ation Desert Storm. Now GPS sys-

tems are used for airborne and space

curse to humanity.

are likely being used in Iraq.

Firefinder: Within seconds, the Firefinder radar systems can detect and backplot the fire of adversary weaponsartillery, rockets and mortars, to provide pinpoint targeting

Tech



information for the counterattack.

Firefinder radars scan electronically in three dimensions. The stationary antenna sweeps a rapid sequence of beams along the horizon, forming an electronic radar curtain over a 90° area.

JDAM: The Joint Direct Attack Munitions (JDAM) is a satellite guided air-to-surface weapon that uses either the 2,000-pound BLU-109/MK 84 or the 1,000-pound BLU-110/MK 83 warheads as the payload. JDAM enables employment of accurate air-to-surface weapons against high priority fixed and relocatable targets from fighter and bomber JASSM: A US Joint Air to Surface

Standoff Missile (IASSM) is an airlaunched precision cruise missile that uses signals from satellites to find its target. **Tomahawk:** A precision-guided

long-range US cruise missile fired from a submarine, destrover or Hellfire missile: This is a laser-

guided anti-armor missile used by Army and Marine Corps attack helicopters and land attack vehicles



Aircrafts and Choppers

F-16 Fighting Falcon: The F-16 Fighting Falcon is a compact, multirole fighter aircraft. It is highly maneuverable and has proven itself in air-to-air combat and air-tosurface attack.

F-117 Nighthawk: The F-117A Stealth fighter is the world's first operational aircraft designed to exploit low observable stealth technology. The unique design of the single-seat F-117A provides exceptional combat capabilities.

Apache Longbow: These multirole combat helicopters use laser, infrared and other high-technology systems to find, track and attack

F/A-18E/F Super Hornet: Upgraded multi-role fighter, an upgraded version of F/A-18 Hornet with 11 weapons stations. F-15 Eagle: The F-15 has elec-

tronic systems and weaponry to detect, acquire, track and attack enemy aircraft while operating in friendly or enemy-controlled air-

B2 Stealth Bomber: The B-2 is a multi-role bomber capable of delivering both conventional and nuclear

were little bigger than a laptop com-

puter and could easily be moved

The quality of the video and audio

sent back is better than before

because the satellite phones use

ISDN which gives them more band-

width than is available via ordinary

live, low-quality video conferencing

via ISDN.

Drip feed

The satellite phones can also do

The ability to send back these

The satellite phones allow report-

The phones can stay in constant

contact via the Thuraya network

which uses geostationary satellites

whose footprint covers the Middle

www.bdserver.com

Post: System Admin

Last Date: April 15, 2003

Ahsanullah University of

Science and Technology

Electrical & Electronic

Science & Engineering.

Last Date: April 07,2003

level in the Departments of

Engineering and Computer

Post: Marketing Executive

Post: Teaching posts at different

ers to send back much higher-quality

video, too, albeit slowly, said Tyrrell.

reports was changing the way that

wars were reported, said Tyrrell.



munitions. The B-2 brings massive firenower to bear, in a short time. anywhere on the globe, through previously impenetrable defenses.

Predator: Unmanned spy plane. The Predator, equipped with Hellfire missiles, was used to track and kill six suspected members of al-Qaeda in Tanks

M1-A2 Abrams: The US Army's most advanced battle tank. It destroys enemy forces using firepower, maneuver, and shock effect and has a top speed of 40 mph (60 Others

FDECU: The Field Deployable Environmental Control Unit FDECU is a heat pump intended for use in cooling, heating, dehumidifying, filtering and circulating air. It can also filter air in chemical or biological contaminated areas.

Dolphins: Two animals trained by the US Navy are helping to clear mines from the waters around the southern Iraqi port of Umm Qasr. Dolphin's biological sonar is far superior to human systems for detecting objects in the water and on the seabed.

As a result, large files can be

dripted back slowly to the BBC for

tins. Tyrrell said every minute of

broadcast quality video took 25

minutes to be transferred via the

Iridium satellite phones that connect

via a constellation of spacecraft

orbiting around 675 kilometres (420

BBC reporters are using the

Panasonic ToughBook, a ruggedised

laptop, to edit video and audio

reports in the field and prepare them

frontline but the biggest danger to the

destroy things like USB connectors,"

The laptops can survive life on the

"The tiniest bit of grit could

In addition to satellite phones,

Reporters are also equipped with

satellite network.

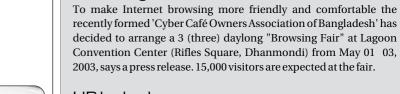
miles) high.

for transmission.

laptops was sand.

said Tyrrell.

oadcast and for use in news bulle



HP lucky draw

Browsing fair

Tech Snaps

The prize giving ceremony of HP Golden Bonanza and Digital Imaging Fair was held on March 24 at a local restaurant in Dhaka, says a press release.

Bob Ang, IPG-Country Sales Manager for Bangladesh, HP, distributed the prizes among the winners. Shabbir Shafiullah, Business Development Manager, HP, was also present in the

Photo (Tech



Japanese electronics giant Toshiba unveils a prototype model of the home use robot "ApriAlpha" which enables a user to control home electronic appliances and information terminals with face and voice recognition technology, during a demonstration at the company's laboratory in Kawasaki, suburban Tokyo on March 31. Toshiba will exhibit it at a robot show in



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Brainstorms.com BRAINSTORMS.com combines energy, enthusiasm, and courtesy with a high level of

BRAINST ORMS.com

professionalism not always found in organizations which carry rare and hard-to-find items such as

URL: http://www.brainstorms.com

Games2Learn

Games2Learn, also known as A Better Way of Learning, develops, markets and provides children educational products designed to increase their skills in language, math and general knowledge in

8888

epinions.com

Epinions.com

What's the best kind of toy for little babies who don't yet have strong motor or perceptual skills? -Epinions helps people make better buying

URL: http://www.epinions.com/kifm-Toys-Toys_for_Little_Babies

Great Beginnings

Gerennings Gerennings and accessories as well.

Tech Toon

Star Tech Quiz



"This computer is very fast! It became outdated faster than any computer I've ever owned."

Check the box beside the correct answer 1. What protocol is used to upload to the web? NetBios TCP/IP DataLink 2. . What is the best medium to install in a high-interference area caused by electromagnetic interference? Fiber-optic Cable STP Coaxial Cable LAN 3. Which device works mainly on the Network Layer of the QSI n Repeater Hub Switch Router Name: Occupation: Address: **Contact Number:** E-mail: Last week's answers

1. TCP/IP2. World Wide Web Consortindustry Standard Arch

29, West Mollartak, Uttara Dhaka 1230 fill this up and send your answers to Star Tech Quiz, The Daily Star,

Winners: Md. Monirul Islam (correct answers: 2)

19 Karwan Bazaar, Dhaka 1215 by April 7, 2003.

te Nobug Hori, NTT DoCoMo's Public Relation Department, shows off the company's latest Personal Handyphone System (PHS) mobile phone. "Wristomo" at its headquarters in Tokyo on March 26. The waterproof wristwatch phone, Wristomo opens up into a functional PHS handset pressing buttons on either side of the watch face.

War reporting goes hi-tech

BBC ONLINE

War

IMPROVEMENTS to equipment used by reporters travelling with troops in Iraq mean that viewers are getting unprecedented access to a war as it

Small satellite phones, laptop deo editing software and light digital cameras are helping journalists file broadcast-ready reports direct from combat zones.

Before now, many journalists in war zones had to put reports on tape which then had to be carried far behind the frontline before being broadcast.

Two-man team

Just as computers have shrunk to a size that can easily be carried around so have many of the devices that frontline journalists use to file their

In 1991, during the Gulf War, satellite phones existed but weighed up to 40 kilograms and had to be powered by mains electricity or a

The devices were luggable rather than portable and made it hard for reporters to deliver pictures of events as they were happening

Mark Tyrrell, manager of resources and development in the BBC's News-gathering arm, who helps to kit out reporters in the field, said technology had improved considerably by the time this conflict

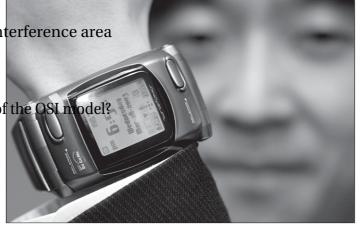
He said "embedded" reporting teams that were travelling with troops could only be made up of two people; one reporter and a cameraman/editor.

Powerful package

Now, he said, satellite phones



East and Europe. Wrist magic Tech Jobs



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(Software)

Rangs Group)

Technology Last Date: April 10, 2003 (A Leading ISP, under a Renowned Group of Company.)

Post: Manager, Information

Rahman Rahman Huq

Post: Graphic Designer Last Date: April 4, 2003 **BSM Limited**

Post: MCSE, MCSD and

Ranks ITT Ltd. (a member of MCDBA Faculty fulltime or part-time Last Date: April 10, 2003

> Post: Deputy Manager Telecom Last Date: April 03, 2003 source: www.bdjobs.com

Communications Technology

Yokohama this week and expects to put it on the market in 2005.

Best 10 Websites ToysRUs.com

TX40 Tovs

URL: http://www.toys.tx40.com ToyClassics.com

URL: http://www.toyclassics.com

URL: http://store.disney.go.com

areyougame URL: http://www.areyougame.com

KBkids.com

and adults with quality, fun, interactive an entertaining way. URL: http://www.games2learn.com

decisions

This family owned business opened in 1991 as a complete line baby specialty store. It has expanded to offer toddler and juvenile furniture

URL: http://www.greatbeginnings.net