

Solutions Pre Intermediate Progress Test Unit 7

Unit testing

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Unit testing describes tests that are run at the unit-level to contrast testing at the integration or system level.

General-purpose computing on graphics processing units

one-way from a central processing unit (CPU) to a graphics processing unit (GPU), then to a display device. As time progressed, however, it became valuable

General-purpose computing on graphics processing units (GPGPU, or less often GPGP) is the use of a graphics processing unit (GPU), which typically handles computation only for computer graphics, to perform computation in applications traditionally handled by the central processing unit (CPU). The use of multiple video cards in one computer, or large numbers of graphics chips, further parallelizes the already parallel nature of graphics processing.

Essentially, a GPGPU pipeline is a kind of parallel processing between one or more GPUs and CPUs, with special

accelerated instructions for processing image or other graphic forms of data. While GPUs operate at lower frequencies, they typically have many times the number of Processing elements. Thus, GPUs can process far more pictures and other graphical...

Methylene blue

dysplasia, or pre-cancerous lesions. Intravenously injected methylene blue is readily released into the urine and thus can be used to test the urinary tract

Methylthioninium chloride, commonly called methylene blue, is a salt used as a dye and as a medication. As a medication, it is mainly used to treat methemoglobinemia. It has previously been used for treating cyanide poisoning and urinary tract infections, but this use is no longer recommended.

Methylene blue is typically given by injection into a vein. Common side effects include headache, nausea, and vomiting.

Methylene blue was first prepared in 1876, by Heinrich Caro. It is on the World Health Organization's List of Essential Medicines.

List of abbreviations in oil and gas exploration and production

needed)) WSTL - well site test log WSU - well service unit wt - wall thickness WT - well test WTI - West Texas Intermediate benchmark crude WTR - water

The oil and gas industry uses many acronyms and abbreviations. This list is meant for indicative purposes only and should not be relied upon for anything but general information.

Fast protein liquid chromatography

connecting the pumps directly to the waste line to wash them or change buffer solutions. The injection valve has a sample loading port through which the sample

Fast protein liquid chromatography (FPLC) is a form of liquid chromatography that is often used to analyze or purify mixtures of proteins. As in other forms of chromatography, separation is possible because the different components of a mixture have different affinities for two materials, a moving fluid (the mobile phase) and a porous solid (the stationary phase). In FPLC the mobile phase is an aqueous buffer solution. The buffer flow rate is controlled by a positive-displacement pump and is normally kept constant, while the composition of the buffer can be varied by drawing fluids in different proportions from two or more external reservoirs. The stationary phase is a resin composed of beads, usually of cross-linked agarose, packed into a cylindrical glass or plastic column. FPLC resins are...

AI Mark IV radar

the problem of air interception. The team had a test bed system in flights later that year, but progress was delayed for four years by emergency relocations

Radar, Aircraft Interception, Mark IV (AI Mk. IV), also produced in the USA as SCR-540, was the world's first operational air-to-air radar system. Early Mk. III units appeared in July 1940 on converted Bristol Blenheim light bombers, while the definitive Mk. IV reached widespread availability on the Bristol Beaufighter heavy fighter by early 1941. On the Beaufighter, the Mk. IV arguably played a role in ending the Blitz, the Luftwaffe's night bombing campaign of late 1940 and early 1941.

Early development was prompted by a 1936 memo from Henry Tizard on the topic of night fighting. The memo was sent to Robert Watson-Watt, director of the radar research efforts, who agreed to allow physicist Edward George "Taffy" Bowen

to form a team to study the problem of air interception. The team had a...

Project Pluto

problems, the decision was taken to proceed with an intermediate power test on 12 May. This test aimed to simulate the conditions of a Mach 2.8 flight

Project Pluto was a United States government program to develop nuclear-powered ramjet engines for use in cruise missiles. Two experimental engines were tested at the Nevada Test Site (NTS) in 1961 and 1964 respectively.

On 1 January 1957, the U.S. Air Force and the U.S. Atomic Energy Commission selected the Lawrence Radiation Laboratory to study the feasibility of applying heat from a nuclear reactor to power a ramjet engine for a Supersonic Low Altitude Missile. This would have many advantages over other contemporary nuclear weapons delivery systems: operating at Mach 3, or around 3,700 kilometers per hour (2,300 mph), and flying as low as 150 meters (500 ft), it would be invulnerable to interception by contemporary air defenses, carry more nuclear warheads with greater nuclear weapon yield...

Nauka (ISS module)

circuit and module control communications via the Progress spacecraft, and checked the docking unit and its systems. In this process they closed the Pirs

Nauka (Russian: Наука, lit. 'Science'), also known as the Multipurpose Laboratory Module, Upgrade (MLM-U, Russian: Многоцелевой лабораторный модуль, усовершенствованный), is the primary laboratory of the Russian Orbital Segment of the International Space Station (ISS). Serving alongside the Rassvet and Poisk mini-research modules, Nauka conducts scientific experiments and stores research equipment.

Originally built as a backup for Zarya, the very first module of the ISS, Nauka's construction was halted in the late 1990s, when it was about 70% complete. After exploring various options, Roscosmos decided to convert the partially completed module into a laboratory. While the initial target launch date was set for 2007, and outfitting equipment for Nauka was delivered by Space Shuttle Atlantis...

Visual Studio

of applications. These tools include: Unit testing, IntelliTest, Live Unit Testing, Test Explorer, CodeLens test indicators, code coverage analysis, Fakes

Visual Studio is an integrated development environment (IDE) developed by Microsoft. It is used to develop computer programs including websites, web apps, web services and mobile apps. Visual Studio uses Microsoft software development platforms including Windows API, Windows Forms, Windows Presentation Foundation (WPF), Microsoft Store and Microsoft Silverlight. It can produce both native code and managed code.

Visual Studio includes a code editor supporting IntelliSense (the code completion component) as well as code refactoring. The integrated debugger works as both a source-level debugger and as a machine-level debugger. Other built-in tools include a code profiler, designer for building GUI applications, web designer, class designer, and database schema designer. It accepts plug-ins that...

Google Swiffy

mobile advertising team to search for solutions to display Flash content on devices that do not support Flash. Progress on Swiffy was sufficient that Google

Google Swiffy was a web-based tool developed by Google that converted SWF files to HTML5. Its main goal was to display

Flash contents on devices that do not support Flash, such as iPhone, iPad, and Android Tablets. Swiffy was shut down on July 1, 2016.

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