

Bibliografía básica (libros y páginas Web)

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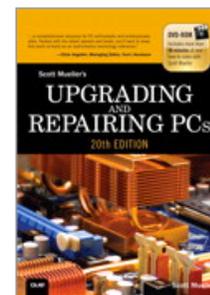
Libros que cubren el temario en su conjunto

- Saga "Arquitectura del PC".
- <http://www.arquitecturadelpc.com>



- Diagnóstico y reparación de componentes (en inglés):
 - Scott Mueller. "Upgrading & Repairing PCs" . Editorial QUE. 20^a edic. 2011.
 - <http://www.upgradingandrepairingpcs.com>

Scott Mueller's Upgrading and Repairing: Best-Selling Guides to Everything PC



For 20 years, *Upgrading and Repairing PCs* has been the world's #1 guide to PC hardware: the single source for reliable information on troubleshooting and fixing problems, adding hardware, optimizing performance, and building new PCs. Now better than ever, this 20th Edition offers beefed-up coverage of the newest hardware innovations and maintenance techniques, plus more than 90 minutes of new DVD video.

Adquisición y selección de componentes

- Directrices de compra en el capítulo 20 del volumen III de Arquitectura del PC.
- Las 12 tiendas donde mis alumnos compran en la red:
 - PC-BOX, PC componentes, App Informática, Ibertrónica.
 - Alternate, BIOMAG, Soft World, PC MOD.
 - Batch PC, Thermaltake, CSM Informática, Cooler Master.
- Enlace exclusivo para la compra de la memoria:
<http://www.memoryc.com>
- La configuración ideal de un PC de 1000 euros en los últimos 7 años (2005-2011) según las preferencias del alumnado de la ETSI Informática: <http://ceei.ujaldon.es>

Para conocer más a fondo las características de los componentes de nuestro PC

- CPU-Z: Para los parámetros básicos de CPU, memoria y juego de chips de la placa base: <http://www.cpuid.com/softwares/cpu-z.html>
- CrystalCPUID: Complemento del anterior, más orientado a los procesadores AMD: <http://crystalmark.info/software/CrystalCPUID/index-e.html>
- Alternativas para la CPU: SPECCY, GCPUID, WCPUID.
- Otras utilidades para el conjunto del PC:
 - ASTRA32: <http://www.astra32.com>
 - System Spec: <http://www.alexnolan.net/software/syssspec.htm>
 - HWINFO32: <http://www.hwinfo.com>
 - ConfigInspector: <http://flashdeli.com/config-inspector.php>

Análisis del rendimiento del PC y sus cuellos de botella

- wPrime: Para una CPU multihilo. <http://www.wprime.net>
- PC-Wizard: Analiza paramétricamente y mediante benchmarks el rendimiento en diagramas de 5 ejes: Procesador, jerarquía de memoria (caché, memoria principal y disco duro) y el subsistema gráfico. <http://www.cpubid.com/software/pc-wizard.html>
- RightMark Memory Analyzer: Detallado informe sobre el subsistema de memoria principal. <http://cpu.rightmark.org>
- Dos utilidades completísimas, aunque ambas de pago:
 - SiSoft Sandra: <http://www.sisoftware.co.uk>
 - Aida 64: <http://www.aida64.com>

Monitorización del comportamiento del PC: Frecuencias, temperaturas, voltajes, RPM...

- MB Probe: Monitoriza voltajes, temperaturas y velocidades de rotación de los ventiladores.
<http://www.majorgeeks.com/download283.html>
- SpeedFan: Para conocer el % de actividad de cada core de la CPU, la memoria en uso, actividad del disco, actividad de la red, ... <http://speedfansoftonic.com>
- RainMeter: Similar al anterior, aunque con potentes complementos como el HUD.Vision. <http://rainmeter.net/cms>
- CoreTemp: Para conocer las temperaturas y voltajes de los núcleos del procesador. <http://www.alcpu.com/CoreTemp>

Fuente de alimentación

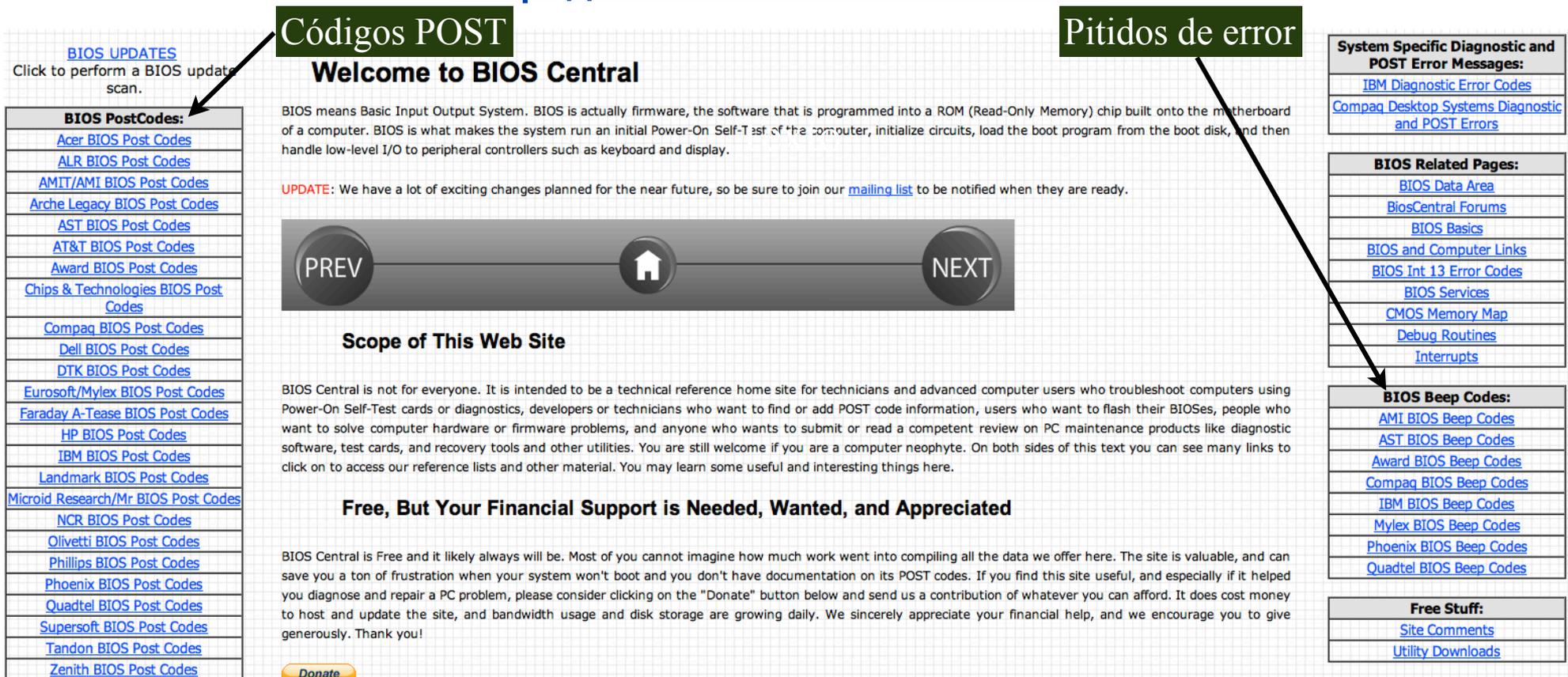
- Estimación del consumo energético por componentes para dimensionar adecuadamente la potencia de nuestra fuente:
 - eXtreme Power Supply Calculator:
<http://extreme.outervision.com/psucalculator.jsp>
- Otras posibilidades, aunque menos completas y ceñidas a los modelos concretos de Asus y Antec, respectivamente:
 - Asus: <http://support.asus.com/PowerSupplyCalculator>
 - Antec: <http://antec.com/psucalc>

Montaje del PC

- Volumen III de Arquitectura del PC (capítulos 21 y 22). Puede consultarse en la biblioteca del centro o descargarse por Internet de la librería virtual Lulu.com. Para acceder a ella y mantenerse informado de futuras ediciones:
 - <http://www.arquitecturadelpc.com>
- Extenso tutorial para montar un PC paso a paso, aderezado con muchas fotografías:
 - <http://www.hardzone.es/monta-tu-propio-ordenador-personal/>

Configuración firmware y BIOS (en inglés)

- Todos los códigos POST y pitidos de error clasificados por marcas, así como los mapas de memoria de la RAM-CMOS, en: <http://www.bioscentral.com>



BIOS UPDATES
Click to perform a BIOS update scan.

BIOS PostCodes:

- [Acer BIOS Post Codes](#)
- [ALR BIOS Post Codes](#)
- [AMIT/AMI BIOS Post Codes](#)
- [Arche Legacy BIOS Post Codes](#)
- [AST BIOS Post Codes](#)
- [AT&T BIOS Post Codes](#)
- [Award BIOS Post Codes](#)
- [Chips & Technologies BIOS Post Codes](#)
- [Compaq BIOS Post Codes](#)
- [Dell BIOS Post Codes](#)
- [DTK BIOS Post Codes](#)
- [Eurosoft/Mylex BIOS Post Codes](#)
- [Faraday A-Tease BIOS Post Codes](#)
- [HP BIOS Post Codes](#)
- [IBM BIOS Post Codes](#)
- [Landmark BIOS Post Codes](#)
- [Microid Research/Mr BIOS Post Codes](#)
- [NCR BIOS Post Codes](#)
- [Olivetti BIOS Post Codes](#)
- [Phillips BIOS Post Codes](#)
- [Phoenix BIOS Post Codes](#)
- [Quadtel BIOS Post Codes](#)
- [Supersoft BIOS Post Codes](#)
- [Tandon BIOS Post Codes](#)
- [Zenith BIOS Post Codes](#)

BIOS PostCodes

Welcome to BIOS Central

BIOS means Basic Input Output System. BIOS is actually firmware, the software that is programmed into a ROM (Read-Only Memory) chip built onto the motherboard of a computer. BIOS is what makes the system run an initial Power-On Self-Test of the computer, initialize circuits, load the boot program from the boot disk, and then handle low-level I/O to peripheral controllers such as keyboard and display.

UPDATE: We have a lot of exciting changes planned for the near future, so be sure to join our [mailing list](#) to be notified when they are ready.

PREV HOME NEXT

Scope of This Web Site

BIOS Central is not for everyone. It is intended to be a technical reference home site for technicians and advanced computer users who troubleshoot computers using Power-On Self-Test cards or diagnostics, developers or technicians who want to find or add POST code information, users who want to flash their BIOSes, people who want to solve computer hardware or firmware problems, and anyone who wants to submit or read a competent review on PC maintenance products like diagnostic software, test cards, and recovery tools and other utilities. You are still welcome if you are a computer neophyte. On both sides of this text you can see many links to click on to access our reference lists and other material. You may learn some useful and interesting things here.

Free, But Your Financial Support is Needed, Wanted, and Appreciated

BIOS Central is Free and it likely always will be. Most of you cannot imagine how much work went into compiling all the data we offer here. The site is valuable, and can save you a ton of frustration when your system won't boot and you don't have documentation on its POST codes. If you find this site useful, and especially if it helped you diagnose and repair a PC problem, please consider clicking on the "Donate" button below and send us a contribution of whatever you can afford. It does cost money to host and update the site, and bandwidth usage and disk storage are growing daily. We sincerely appreciate your financial help, and we encourage you to give generously. Thank you!

[Donate](#)

System Specific Diagnostic and POST Error Messages:

- [IBM Diagnostic Error Codes](#)
- [Compaq Desktop Systems Diagnostic and POST Errors](#)

BIOS Related Pages:

- [BIOS Data Area](#)
- [BiosCentral Forums](#)
- [BIOS Basics](#)
- [BIOS and Computer Links](#)
- [BIOS Int. 13 Error Codes](#)
- [BIOS Services](#)
- [CMOS Memory Map](#)
- [Debug Routines](#)
- [Interrupts](#)

BIOS Beep Codes:

- [AMI BIOS Beep Codes](#)
- [AST BIOS Beep Codes](#)
- [Award BIOS Beep Codes](#)
- [Compaq BIOS Beep Codes](#)
- [IBM BIOS Beep Codes](#)
- [Mylex BIOS Beep Codes](#)
- [Phoenix BIOS Beep Codes](#)
- [Quadtel BIOS Beep Codes](#)

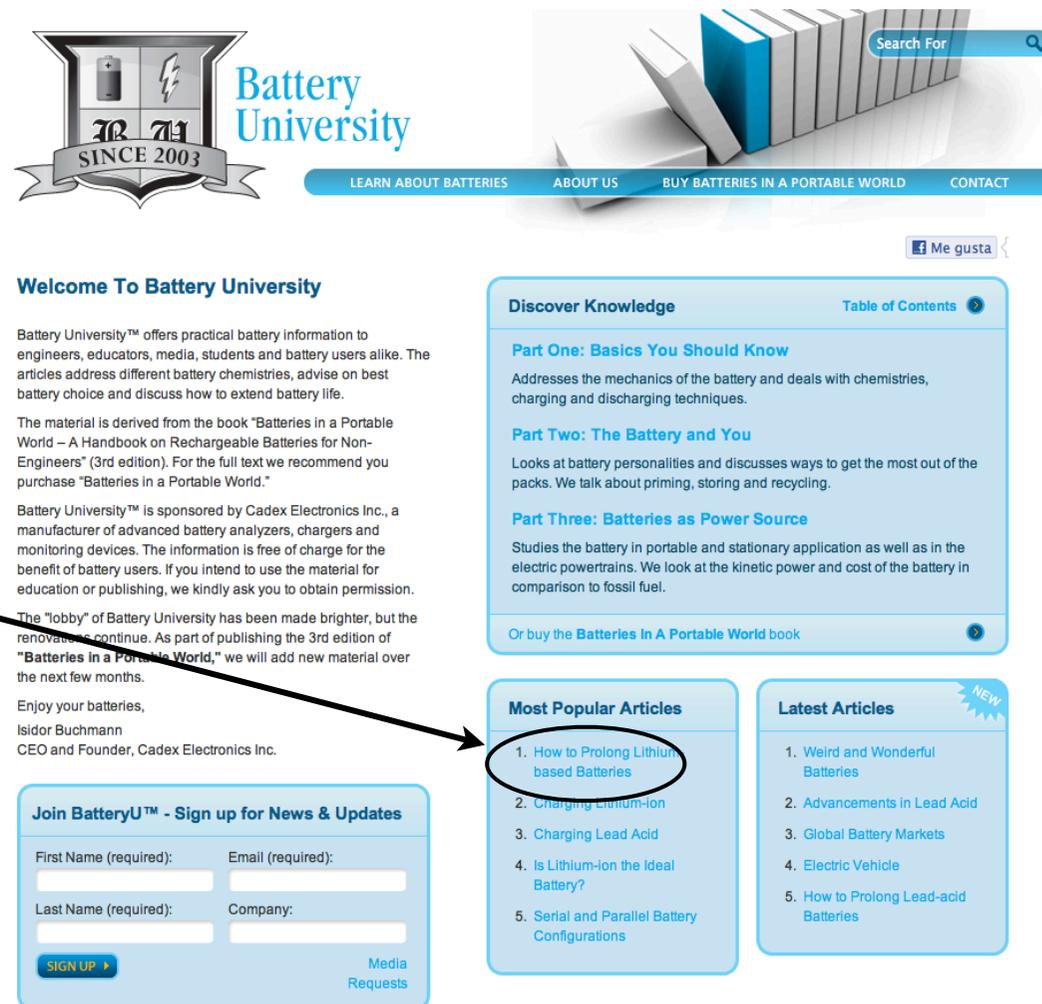
Free Stuff:

- [Site Comments](#)
- [Utility Downloads](#)

Mantenimiento y prevención (en inglés)

- La batería del portátil. Fundamentos y consejos de mantenimiento en:
 - <http://batteryuniversity.com/learn>

- Un documento clave para conocer cómo se degrada la batería frente a 4 variables principales:
 - El número de ciclos de carga.
 - La temperatura.
 - El porcentaje de carga con el que se guarda en el cajón durante un tiempo prolongado.
 - La tensión con la que se recargan las celdas.



The screenshot shows the Battery University website. At the top, there is a navigation bar with links: LEARN ABOUT BATTERIES, ABOUT US, BUY BATTERIES IN A PORTABLE WORLD, and CONTACT. Below the navigation bar is a search bar and a social media link for Facebook. The main content area is titled "Welcome To Battery University" and contains several paragraphs of text. A "Join BatteryU™ - Sign up for News & Updates" form is located at the bottom left. On the right side, there are two columns of article lists: "Most Popular Articles" and "Latest Articles". The first article in the "Most Popular Articles" list, "How to Prolong Lithium based Batteries", is circled in red. An arrow points from the text in the list to this circled article title.

Welcome To Battery University

Battery University™ offers practical battery information to engineers, educators, media, students and battery users alike. The articles address different battery chemistries, advise on best battery choice and discuss how to extend battery life.

The material is derived from the book "Batteries in a Portable World – A Handbook on Rechargeable Batteries for Non-Engineers" (3rd edition). For the full text we recommend you purchase "Batteries in a Portable World."

Battery University™ is sponsored by Cadex Electronics Inc., a manufacturer of advanced battery analyzers, chargers and monitoring devices. The information is free of charge for the benefit of battery users. If you intend to use the material for education or publishing, we kindly ask you to obtain permission.

The "lobby" of Battery University has been made brighter, but the renovations continue. As part of publishing the 3rd edition of "Batteries in a Portable World," we will add new material over the next few months.

Enjoy your batteries,
Isidor Buchmann
CEO and Founder, Cadex Electronics Inc.

Join BatteryU™ - Sign up for News & Updates

First Name (required): Email (required):

Last Name (required): Company:

SIGN UP Media Requests

Discover Knowledge Table of Contents

Part One: Basics You Should Know
Addresses the mechanics of the battery and deals with chemistries, charging and discharging techniques.

Part Two: The Battery and You
Looks at battery personalities and discusses ways to get the most out of the packs. We talk about priming, storing and recycling.

Part Three: Batteries as Power Source
Studies the battery in portable and stationary application as well as in the electric powertrains. We look at the kinetic power and cost of the battery in comparison to fossil fuel.

[Or buy the Batteries In A Portable World book](#)

Most Popular Articles

- How to Prolong Lithium based Batteries
- Charging Lithium-Ion
- Charging Lead Acid
- Is Lithium-Ion the Ideal Battery?
- Serial and Parallel Battery Configurations

Latest Articles

- Weird and Wonderful Batteries
- Advancements in Lead Acid
- Global Battery Markets
- Electric Vehicle
- How to Prolong Lead-acid Batteries

Utilidades para la verificación de la integridad del PC, inventario y localización de averías

- PC Surgeon
- <http://www.pcsurgeon.org.uk>
- LookInMyPC
- <http://www.lookinmypc.com>



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Secure Computing - No Strings Attached

ABOUT US | OFFERS | SECURITY | WIRELESS | SUPPORT

Reliable, Secure Mobility

PC Surgeon is a Devizes based computer services company. We are specialists in wireless and security solutions for small and medium sized businesses, and are proud of our approachable support and computer repair services.

Our goal is to make your computer systems really work for you.

Listen to our [weekly podcast](#) to learn more about how we can help you to help yourself

PC Surgery Podcasts

Alert Level 2

News++
04.4.2010
PC Surgery Podcast number 16 released.



LookInMyPC

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Complete PC Profiling and Diagnostic Reports
For Windows 2k, 2003, XP, Vista, 2008 and Windows 7

LookInMyPC generates a complete, comprehensive system profile that includes information on all installed hardware and software. Additionally it provides system diagnostic information such as details on running processes, installed services, startup programs, Windows updates and hot fixes, active network and Internet connections, TCP/IP port usage, event log detail, and much more. All this is provided in an easy to read, formatted report that you can view and print using your web browser.

Many report items are automatically hyperlinked so you can quickly and easily "Google" them to find out what they are or if some programs might be spyware or viruses. It can also compare scans to look for changes on your computer.

It is also completely non-invasive and makes no changes to your computers settings whatsoever. It can be run entirely from a thumbdrive if desired, and it will automatically archive reports on the thumbdrive, even for multiple computers.

We have even included a handy function that allows you to create a full system profile and diagnostic report and automatically send it as an email ZIP file attachment to a tech support or help desk person.

Best of all, it's completely FREE for personal and commercial use. There is no nagware, no spyware, no system drivers, no hidden malware of any kind, nothing. No information is ever transmitted to anyone (unless you want it to).

Feature Highlights

- Simple User Interface
- Single Executable
- Auto Report Archiving
- Command Line Operation
- Baseline Reports
- Compare Reports
- Save Profiles
- Report Mailing Options
- Vista and Win7 Support
- Run from a Thumbdrive
- 100% Portable

IT'S 100% FREE

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Taller de reparación y averías (en inglés)

- La más completa guía para la reparación de todo tipo de dispositivos tecnológicos, no sólo PCs:

<http://www.ifixit.com>



Do-it-yourself repair
Fix your own hardware with our free service manuals. Step-by-step photos and instructions make it easy. [Learn more](#)

Category	Guides	Devices	Parts
Mac Repair	1.5k	113	4.4k
Game Console Repair	331	47	333
Phone Repair	859	193	80
iPhone Repair	85	5	-
Vehicle Repair	71	63	-
Camera Repair	447	90	-
PC Repair	484	168	-

Reparación de tools

Get the repair parts and upgrades you need. Service parts and tools for Mac, iPod, and iPhone.

Averías

Repair manuals

Fix it yourself with step-by-step repair guides. Learn how to repair electronics the easy way—one step at a time

Troubleshooting

Diagnose what's wrong with your device. Answers is a community of people helping each other fix things.

PC Repair

484 Guides
168 Devices

Despedida



- Muchas gracias por vuestra atención.
- Siempre a vuestra disposición en:
 - e-mail: ujaldon@uma.es
 - Teléfono: (95) 213 28 24.
 - Despacho: 2.2.49 del Complejo de Ingenierías, dentro del Departamento de Arquitectura de Computadores en la ETSI Informática.
- La oferta de cursos de verano que impartiré a lo largo de 2012 estará disponible en aproximadamente un mes en: <http://cursos.ujaldon.es>