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Hp elitebook revolve 810 g2 release date

This article needs to be updated. Please update this article to reflect recent events or newly available information. (July 2020) HP EliteBookHP Elitebook 820 G4DeveloperHewlett-Packard (HP Inc.) ManufacturerHP Inc.TypeLaptopRelease Date August 11, 2008 (2008-08-11)Operating SystemWindowsCPUAMD APU, Intel Core i3, i5 or i7GraphicsAMD Radeon, NVIDIA GeForce, Intel HDMarketing aims for the BusinessPredecessorHP Compaq P seriesReportedHP ProBook HP EliteBook is a line of business-oriented high-end notebooks and mobile workstations made by Hewlett-Packard (HP Inc.). [1] The EliteBook series, which fits above the lower ProBook series,[2] was introduced in August 2008[3][4] as a replacement for compaq's high-end hp notebook line. The EliteBook brand included mobile workstations until September 2013, when they were renamed hp ZBook. EliteBook competes primarily against computer lineups such as Acer's TravelMate, Dell's Latitude and Precision, Lenovo's ThinkPad, and Toshiba's Portand Tecra. Features of the 2012 ProBook/EliteBook docking station The HP EliteBook line is designed to meet MIL-STD-810 military standards for reliability and performance in extreme conditions,[5] i.e. for temperature, altitude, humidity, dust, shock and vibration. Notebooks feature a magnesium alloy chassis, anodized aluminum cover and palm rests, spill-resistant keyboards, active hard drive protection, and dual-end devices (touchpad and stick pointing). [5] Previous EliteBook models featured the HP Night Light keyboard light,[6] while in subsequent generations HP added a backlit keyboard option to about 15 and 17 workstation models. [7] Selected models have SSD storage options. Historical announcements: 2008: August 11: 8530p, 8530w and 8730w; [8] August 18: 2530p and 2730p; [3] September 8: 6930p announced[9] 2010: January 6: 8440p, 8440w, 8540p and 8540w; [10] March 1: 2540p and 2740p; [11] March 24: 8740w announced[12] 2011: February 23: 8460p and 8560p; [13] April 12: 8460w, 8560w and 8760w; [14] May 9: 2560p and 2760p announced[15] 2012: May 9: 2170p, 2570p, 8470p and 8570p,[16] 8470w, 8570w and 8770w,[17] Folio 9470m announced[18] 2013: October 1: 820G1, 840G1 and 850G1; [19] December 10: Folio 1040G1 announced[20] 2014: June 4: 725G2, 745G2 and 755G2; [21] December 2: 720, 740, 750, 820G2, 840G2, 850G2 and Folio 1020 announced[22] 2015: September 29: 725G3, 745G3 and 755G3 announced[23] 2016: January 5: 820G3, FolioG1, 840G3, 1040G3 and 850G3 announced. [24] 2020: January 5: HP Elite DragonflyG2; [25] May 26: EliteBook 830G7, x360 830G7, 840G7, 850G7, 835G7, 845G7, x360 1030G7 and x360 1040G7. [26] December 830G8, x360 830G8, 840G8, 850G8 EliteBook notebook release history 2009-2018 Type **3 (2009) **40 (2010) **60 (2011) **70 (2012) (2013) (2014) (2015) (2016) (2017) (2018) intel intel AMD intel INTEL AMD intel AMD 17.3 Mobile workstation 8730w 8740w 8760w 8770w[27] 15.4 15.6 8530w 8540w 8560w 8570w[27] Ultraport-ins.) 1050G1[28][29] Mainstream 8530p 8540p 8560p[30] 8570p 850G1[31] 850G2 850G3 850G4G2][33] 850G5[34][35] 75 0G1 755G1 750G2 755G2[36] 750G3 755G3[37] 755G4 755G5[38] 14 Ultraportá-14 Folio 9470m[39] Folio 9480m Folio 1040G 1[40] Folio 1040G2 Folio 1040G3[41] Folio 1040G4[42] 1040G1 1040G2 1040G3[33] 1040G4[43] 2- in-1 flipbook x360 1040 Mobile workstation 8440w 8460w 8470w[27] Mainstream 6930p 8440p 8460p[30] 8470p 840G1[31] 840G2 840G3 840G4 [32][33] 840G5[34][35] 840rG4[44] 740G1 745G1 740G2 745G2[36] 745G3[37] 745G4 745G5[38] 13.3 2-in-1 flipbook x3 60 1030G2 x360 1030G3[29] 2-in-1 tablet Elite x2 1013G3[29] Mainstream 1030G1[45] 830G5[34][35] 735G5[38] 38 12.1 1 2.5 Ultraportá-12.5 Ultraportá-2530p 2540p 2570p 820G1[31] 820G2[46] 820G3 820G4[32][33] 1020G1[47] Folio 1020 FolioG1[33] 720G1 725G1 720G2 725G2[36] 725G3[37] 7 25G4 flipbook 2-in-1 x360 1020G2[43] 2-in-1 HP tablet Elite 1011 x2[49] Elite x2 1012G1 Elite x2 1012G2[50] 2-in-1 convertible 2730p 2740p 2760p 11.6 Revolve 810G1 RevolveG2[51] Revolve2[51] Revolve 0p Color models laptop Color codes Laptop Processor Socketed desktop processor Socketed welded cell processor welded high power processor Welded standard power processor Soldered low power processor 0.9 kg (2.0 lb) up to 0.91 kg 1.0 kg (2.2 lb). 0.92-1 kg 1.1 kg (2.4 lb) 1.01-1.1 kg 1.2 kg (2.6 lb) 1.11-1.2 kg 1.3 kg (2.9 lb) 1.21-1.3 kg 1.4 kg (3.1 lb) 1.31-1.4 kg 1.5 kg (3.3 lb) 1.41 -1.5 kg 1.6 kg (3.5 lb) 1.51-1.6 kg 1.7 kg (3.7 lb) 1.61-1.7 kg 1.8 kg (4.0 lb) 1.71-1.8 1 kg (4.2 lb) 1.81-1.91 kg 2.0 kg (4.4 lb) 1.91-2.03 kg 2.1 kg (4.6 lb) 2.04-2.14 kg 2.3 kg (5.1 lb) 2.15-2.4 kg 2.5 kg (5.5 lb) 2.41-2.75 kg 2.8 kg (6.2 lb) 2.76-3.05 kg 3.1 kg (6.8 lb) 3.06-3.42 kg 3.5 kg (7.7 lb) 3.43-3.99 kg 4.0 kg (8.8 lb) 4.0-4.99 kg 5.5 kg (12 lb) 5.0-6.49 kg 7.2 kg (16 lb) 6.5-7.99 kg 9.1 kg (20 lb) 8.0-9.99 kg 10.7 kg (24 lb) 1 0-11.99 kg 12.7 kg (28 lb) 12-14.49 kg 14.5 kg (32 lb) 14.5-17.99 kg 18.1 kg (40 lb) 18 -20.99 kg 21.7 kg (48 lb) 21-23.99 kg 24 kg (53 lb) 24-28.99 kg 29.5 kg (65 lb) 29 kg and above 4K Screen Resolution or higher than 1440p+ (WQHD,QXGA) 1080p+ (Full HD,UXGA) better than 7 68p (SXGA,SXGA+) 600p+ (SVGA, HD, XGA,HD+) up to 600p (VGA) Graphics Dual standard spelling option Proprietary spelling input graphics option Basic graphics Laptop storage combinations (excluding WWAN slot) PCIe Level 4.0 x4 PCIe 3.0 x4 PCIe 3.0 x2 M.2 SATA mSATA 1.0 8 SATA 2.5 SATA 1.8 IDE 2.5 IDE 2019N still (laptops) 2013 2013 2013 2019 2003 2003 2003 2000 003 1991 1988 3 2 4 3 1 2 2 2 2 3 3 1 2 2 2 1 3 1 1 1 1 1 1 2 3 1 1 1 1 1 1 1 Amount of laptop memory LPDDR5 DDR5 LPDDR4X LPDDR4 DDR4 LPDDR3 DDR4 DDR3L DDR3 DDR3 DDR2 DDR DDR EDO EDO FPM dual channel < dual channel dual channel < dual channel dual channel < dual channel dual channel < dual channel dual channel < dual channel 2019Not 2020No 2017 2014 2014 2014 2014 2010 2007 2003 1998 1993 1993 1987 maximum memory = 256 GB N/A 256 GB (4 slots) N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A maximum memory = 128 GB N/A 128 GB N/A N/A 128 GB (4 slots) N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A 64 GB ≤ maximum memory < 128 GB N/A N/A 64 GB N/A N/A 64 GB N/A 64 GB 64 GB (2 slots) 64 GB (4 slots) N /A N/A N/A N/A N/A N/A N/A 32 GB ≤ maximum memory < 64 GB 32 GB 32 GB N/A 32 GB 32 GB (2 slots) 32 GB (4 slots) N/A N/A N/A 16 GB ≤ maximum memory < 32 GB 16 GB 16 GB 16 GB 16 GB 16 GB 16 GB (2 slots) 16 GB (4) N/A N/A N/A N/A 8 GB ≤ maximum memory < 16 GB 8 GB 8 GB 8 GB 8 GB 8 GB (2 slots) 8 GB (4 slots) N/A N/A maximum memory 4 GB ≤ < 8 GB 4 GB 4 GB 4 GB 4 GB 4 GB (4 slots) N/A 2 GB ≤ maximum memory < 4 GB 2 GB (4 GB 2 GB) 2 GB N/A 1 GB ≤ maximum memory < 2 GB 1 GB (1 chip) dual channel min Min N/A single channel min 1 GB 1 GB 1 GB 1 GB 1 GB (4 slot)) 512 MB ≤ maximum memory < 1 GB N/A single channel min channel min N/A dual channel min half channel min 512 MB (8 chips) 512 MB (8 chips) 512 MB N/A 512 MB 512 MB 256 MB ≤ maximum memory < 512 MB 256 MB (1 chip) N/A 256 MB (1 chip) 256 MB (1 chip) N/A single channel min 256 MB (1 chip) N/A single channel min N/A single channel min 256 MB 128 MB ≤ maximum memory < 256 MB N/A N/A N/A N/A 128 MB (1 chip) N/A N/A half channel min N/A half channel min 64 MB ≤ maximum memory < 128 MB N/A N/A N/A N/A N/A 64 MB (1 chip) N/A N/A N/A maximum memory < 64 MB N/A N/A N/A N/A A A The first generation of Elite Books was the xx30 series. Prior to that, HP's P and W-class notebooks (professionals and workstations, respectively) were not marked as EliteBooks, nor did they have the anodized aluminum style characteristic of EliteBooks. First generation EliteBook 8530p The xx30 generation was composed of the following notebooks: 2530p: 12.1 ultra-portable 2730p: 12.1 Tablet PC 6930p: 14.1 mainstream 28 530p: 15.4 mainstream 8530w: 15.4 8730w mobile workstation All models used Intel Core 2 CPUs and 16:10 aspect ratio displays. The 6930p model was notable for being claimed by HP as the first notebook to 24-hour battery Barrier. [5] [9] [53] First Generation (2008-2009) Specification Model Platform Dimensions Weight (min) CPU Chipset Memory (max) Graphics Wireless Screen 2530p[54] Penryn 25.2 × 282.3 × 214.3 mm 1.45 kg (3.2 lb) up to Intel Core 2 Duo SL9600 (2 x 2.13 GHz) Intel GS45 8 GB DDR2-800 (2 slots) Intel GMA 4500MHD up to Intel WiFi Link 5100 (802.11a/b/g/n, 300 Mbit/s) 16:10 aspect ratio12.1 LED, WXGA (1280x800) 2730p[55] 28.2 × 290 × 212 mm 1.7 kg (3.7 lb) up to Intel Core 2 Duo SL9600 (2 x 2.13 GHz) Intel GS45 8 GB DDR2-800 (2 slots) Intel GMA 4500MHD up to Intel WiFi Link 5100 (802.11a/b/g/n, 300 Mbit/s) 16:10 aspect ratio12.1 LED, WXGA (1280x800), with digitizer 6930p[56] 31.3 × 331.0 × 243.0 mm 2.1 kg (4.6 lb) up to Intel Core 2 Duo T9900 (3.06 GHz) Intel GM45Intel PM45 8 GB DDR2-800 (2 slots) Intel GMA 4500MHDor ATI Mobility Radeon HD 3450 up to Intel WiFi Link 5300 (802.11a/b/g/n, 450 Mbit/s) 16:10 aspect ratio14.1 CCFL-backlit, up to WXGA+ (1440x900)1 LED, WXGA (1280x800) 8530p[57] 28.2 × 355 × 263.5 mm 2.86 kg (6.3 lb) up to Intel Core 2 Duo T9800 (2.93 GHz) Intel PM45 8 GB DDR2-800 (2 slots) ATI Mobility Radeon HD 3650 up to Intel WiFi Link 5300 (802.11a/b/g/n, 450 Mbit/s) 16:10 aspect ratio15.4 CCFL-backlit, up to WUXGA (1920x1200) 8530w[58] 28.2 × 255 × 263.5 mm 2.86 kg (6.3 lb) up to Intel Core 2 Extreme QX9300 (2.2.86 kg 53 GHz) Intel PM45 8 GB DDR2-800 (2 slots) MXM: NVIDIA Quadro FX 770MATI Mobility FireGL V5700 up to Intel WiFi Link 5300 (802.11a/b/g/n, 450 Mbit/s) 16:10 aspect ratio15.4 CCFL-backlit , up to WUXGA (1920x1200) 8730w[59] 32 × 393 × 282 mm 3.4 kg (7.5 lb) up to Intel Core 2 Extreme QX9300 (2.53 GHz) Intel PM45 8 GB DDR2-80 0 (2 slots) MXM: NVIDIA QuadroFX 3700M/FX 2700MATI Mobility FireGL V5725 up to Intel WiFi Link 5300 (802.11a/b/g/n, 450 Mbit/s) 16:10 ratio ratio17.0 CCFL-back,lit to WUXGA (1920x1200)17.0 CCFL-backlit DreamColor IPS, WUXGA (1920x1200) Second generation Xx40 series comprised the following models: 2540p: 12.1 ultraportá-2740p: 12.1 Tablet PC 8440p: 14.0 mainstream 8440w: 14.0 workstation 8540p mobile: 15.6 mainstream 8540w: 15.6 8740w mobile workstation: 17.0 mobile workstation The XX40 series has brought several changes and new features, including upgrading to the new Intel Core i5 and Core i7 and DDR3 SDRAM processors , new keyboard semi-gum and for models 14.0 and 15.6 the change of screens from 16:10 to 16:9. HP also added DisplayPort and USB 3.0 ports. In terms of appearance, the workstation models were changed to a darker gunmetal finish, while the non-workstation models kept the silver finish brighter. Models with quad-core CPUs supported up to 32 GB of RAM. Workstation models can be configured with ISV-certified professional graphics cards, such as the ATI FirePro M7820 or Nvidia Quadro FX 5000M (no of the launch of the poderosa placa gráfica classe workstation no mercado[60]). Second generation (2010) Specification Model Platform Dimensions Weight (min) CPU Chipset Memory (max) Graphics Wireless Screen 2540p[61] Nehalem 28 × 282.2 × 213.4 mm 1.53 kg (3.4 lb) up to Intel Core i7-660LM (2 x 2.26 GHz) Intel QM57 8 GB DDR3-1333 (1 slot) Intel GMA HD up to Intel Advanced-N 6200 (802.11a/b/g/n, 300 Mbit/s) 16:10 aspect ratio12.1 LED, WXGA (1280x800)with digitizer 8470w[63] 31.3 × 335.6 × 236.2 mm 2.12 kg (4.7 lb) up to Intel Core i7-740QM (4 x 1.73 GHz) Intel QM57 16 GB[a] DDR3-1333 (2 slots) Intel GMA HD up to Intel Ultimate-N 6300 (802.11a/b/g/n, 450 Mbit/s) 16:10 aspect ratio1.2 LED, WXGA (1280x800)with digitizer and optional multi-touch 8440p[63] 31.3 × 335.6 × 236.2 mm 1.72 kg (3.8 lb) up to Intel Core i7-640M (2 x 2.80 GHz) Intel QM57 8 GB DDR3-1333 (2 slots) Intel GMA HD up to Intel Advanced-N 6205 (802.11a/b/g/n, 300 Mbit/s) 16:10 aspect ratio12.1 LED, WXGA (1280x800)with digitizer and multitouch 8460p[72] 31.8 × 338 × 231.3 mm 2.07 kg (4.6 lb) up to Intel Core i7-2720QM (2 x 2.2 GHz) Intel QM57 8 GB DDR3-1333 (2 slots) Intel GMA HDOption + Nvidia NVS 3100M up to Intel Ultimate-N 6300 (802.11a/b/g/n , 450 Mbit/s) 14.0 LED, up to HD+ (1600x900) 8440w[64] 31.3 × 335.6 × 236.2 mm 2.24 kg (4.9 lb) up to Intel Core i7-840QM (4 x 1.86 GHz) Intel QM57 16 GB DDR3-1333 (2 slots) Intel GMA HD+ NVIDIA Quadro FX 380M up to Intel Ultimate-N 6300 (802.11a/b/g/n, 450 Mbit/s) 14.0 LED, up to HD+ (1600x900) 8540p[65] 32.4 × 373.5 × 251.5 mm 2.89 kg (6.4 lb) up to Intel Core i7-840QM (4 x 1.86 GHz) Intel QM57 16 GB[a] DDR3-1333 (2 slots) Intel GMA HD + MXMNvidia NVS 5100M up to Intel Ultimate-N 6300 (802.11a/b/g/n, 450 Mbit/s) 15.6 LED, up to FHD (1920x1080) 8540w[66] 32.4 × 373.5 × 251.5 mm 2.89 kg (6.4 lb) up to Intel Core i7-840QM (4 x 1.86 GHz) Intel QM57 32 GB DDR3-1333 (4 slots) Intel GMA HD + MXMNVIDIA QuadroFX 1800M/FX 880MATI FirePro M5800 up to Intel Ultimate-N 6300 (802.11a/b/g/n , 450 Mbit/s) 15.6 LED, up to FHD (1920x1080)15.6 LED DreamColor IPS, FHD (1920x1080) 8740w[67] 36.5 × 397.5 × 285.5 mm 3.57 kg (7.9 lb) up to Intel Core i7-920XM (4 x 2.00 GHz) Intel QM57 32 GB DDR3-1333 (4 slots) Intel GMA HD + MXMNVIDIA Quadro5000M/3800M/2800MATI FirePro M7820 up to Intel Ultimate-N 6300 (802.11a/b/g/n, 450 Mbit/s) 16:10 aspect ratio17.0 LED, up to WUXGA (1920x1200)17.0 LED DreamColor IPS, WUXGA (1920x1200) ^ a b 16 GB only with quad-core CPU, dual-core i5 can support only 8 GB Third generation The xx60 series, announced on February 23, 2011,[13] comprised the following models: 2560p: 12.5 ultraportable 2760p: 12.1 Tablet PC 8460p: 14.0 mainstream 8460w: 14.0 mobile workstation 8560p : 15,6 mainstream 8560w: 15,6 estação de trabalho móvel 8760w: estação de trabalho móvel de 17,3 A série XX60 contou com processadores da série Intel Core i de segunda geração, uma escolha de gráficos integrados da Sandy Bridge ou AMD Radeon HD 6470M discretos e teclados estilo chiclete. Todos os modelos, exceto o 2760p usado 16:9 displays. Os modelos de estação de trabalho móvel apresentavam gráficos Nvidia Quadro ou AMD FirePro. [68] Os cadernos eram completamente redesigned, with a more boxy and less plastic shape used on the surfaces, as well as a larger glass touchpad. The multiple access panels at the bottom of the notebooks have been replaced by a single panel that allows access to all internal components. The 8460p model was claimed to have battery life of more than 32 hours[69] using an ultra-capacity external battery. Third Generation (2011) Specification Model Platform Dimensions Weight (min) CPU Chipset Memory (max) Graphics Wireless Screen Revolve 810[77] Ivy Bridge 22.2 × 285 × 212 mm 1.4 kg (3.1 lb) up to Intel Core i7-3687U (2 x 2.1 GHz) Intel QM77 12 GB DDR3L-1600 (4 GB soldered, 1 slot) Intel HD 4000 up to Intel Advanced-N 6205 (802.11a/b/g/n, 300 Mbit/s) 11.6 LED, HD (1366×768)with digitizer and multi-touch 2170p[78] 26.5 × 292 × 192 mm 1.33 kg (2.9 lb) up to Intel Core i7-3687U (2 x 2.1 GHz) Intel QM77 16 GB DDR3L-1600 (2 slots) Intel HD 4000 up to Intel Advanced-N 6205 (802.11a/b/g/n, 300 Mbit/s) 11.6 LED, HD (1366×768) 2570p[79] 27 × 305 × 209 mm 1.63 kg (3.6 lb) up to Intel Core i7-3540M (3.0 GHz) Intel QM77 16 GB DDR3L-1600 (2 slots) Intel HD 4000 up to Intel Advanced-N 6205 (802.11a/b/g/n , 300 Mbit/s) 12.5 LED, HD (1366×768) 8470p[80] 34 × 338 × 231 mm 2.07 kg (4.6 lb) up to Intel Core i7-3740QM (4 x 2.70 GHz) Intel QM77 16 GB DDR3L-1600 (2 slots) Intel HD 4000Option + AMD Radeon HD 7570M up to Intel Ultimate-N 6300 (802.11a/b/g/n, 450 Mbit/s) 14.0 LED, up to HD+ (1600x900) 8470w[81] 31.8 × 338 × 231.3 mm 2.25 kg (5.0 lb) up to Intel Core i7-3840QM (4 x 2.8 GHz) Intel QM77 16 GB DDR3L-1600 (2 slots) Intel HD 4000+ AMD FirePro M2000 up to Intel Ultimate-N 6300 (802.11a/b/g/n, 450 Mbit/s) 14.0 LED, up to HD+ (1600x900) Folio 9470m[82] 19 × 338 × 231 mm 1.61 kg (3.5 lb) up to Intel Core i7-3687U (2 x 2.1 GHz) Intel QM77 16 GB DDR3L-1600 (2 slots) Intel HD 4000 up to Intel Advanced-N 6235 (802.11a/b/g/n , Bluetooth 4.0) 14.0 LED, HD+ (1600x900) 8570p[80] 34 × 374 × 251 mm 2.61 kg (5.8 lb) up to Intel Core i7-3740QM (2 x 2.70 GHz) Intel QM77 16 GB DDR3L-1600 (2 slots) Intel HD

Fourth generation An Elitebook 8770w, mounted on a dock. The fourth generation, announced on May 9, 2012,[16] comprised the following models: Revolve 810: 11.6 Tablet PC 2170p: 11.6 ultraportá-2570p: 12.5 ultraport-p: 14.0 mainstream 8470w: Station Mobile work folio 9470m: 14.0 ultrabook 8570p: 15.6 mainstream 8570w: 15.6 8770w mobile workstation: 17.3 mobile workstation The XX70 series was largely incremental para a série xx60 anterior, atualizada com processadores Intel Ivy Bridge e novos processadores gráficos integrados e discretos. Novas adições à família EliteBook incluíram o ultrabook 11.6 2170p e o 14.0 Folio 9470m ultrabook. ElitePad 900 G1 foi introduzido com esta geração em outubro de 2012. [76] Fourth Generation (2012) Specification Model Platform Dimensions Weight (min) CPU Chipset Memory (max) Graphics Wireless Screen

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Find sources: 32-bit computing - news · newspapers · books · scholar · JSTOR (October 2009) (Learn how and when to remove this model message) Bit 148121616262628303132364045486064128256512point precision cutbits floating 8163264 Binary Floating Point Accuracy 16 (×1/2)2432 (×1)4064 (×2)80128 (×4)256 (×8) Decimal floating point accuracy 3264128 vte In computer architecture, 32-bit integers, bits, memory addresses, or other data drives are those that are 32 bits (4 octets) wide. In addition, the 32-bit CPU and ALU architectures are those that are based on records, address buses, or data buses of this size. 32-bit microcomputers are computers where 32-bit microprocessors are the norm. Integer storage range A 32-bit record can store 232 different values. The range of integer values that can be stored in 32 bits depends on the representation of the integer used. With the two most common representations, the range is from 0 to 4,294,967,295 (232 − 1) for representation as binary number (unsigned) and -2,147,483,648 (-231) to 2,147,483,647 (231 − 1) for representation as a complement to two. An important consequence is that a processor with 32-bit memory addresses can directly access a maximum of 4 GiB of byte addressed memory (although in practice the limit may be lower). Technical History The world's first stored program electronic computer, Manchester Baby, used a 32-bit architecture in 1948, although it was only proof of concept and had little practical capacity. He had only 32 words of 32 bits of RAM in a Williams tube, and had no addition operation, just subtraction. Memory, like other digital circuits and wiring, was expensive during the first decades of 32-bit architectures (from the 1960s to the 1980s). [1] Older families of 32-bit processors (or simpler and cheaper variants) could therefore have many commitments and limitations to reduce costs. This can be a 16-bit ALU, for example, a 16-bit external data bus narrower than 32-bit, limiting memory size or requiring more cycles to fetch instructions, run, or write back. Despite this, such processors could be labeled as 32-bit, since they still had 32-bit records and instructions capable of handling 32-bit amounts. For the IBM System/360 Model 30 had an 8-bit ALU, 8-bit internal data paths, and an 8-bit path to memory,[2] and the original Motorola 68000 had a 16-bit data ALU and a 16-bit external data bus, but had 32-bit records and a 32-bit instruction set. Design 68000 68000 sometimes referred to as 16/32 bits. [3] However, the opposite is often true for newer 32-bit projects. For example, the Pentium Pro processor is a 32-bit machine, with 32-bit records and instructions that handle 32-bit quantities, but the external address bus is 36 bits wide, giving an address space greater than 4 GB, and the external data bus is 64 bits wide, primarily to allow a more efficient preview of instructions and data. [4] Architectures Prominent architectures of 32-bit instruction sets used in general purpose computing include IBM System/360 and IBM System/370 (which had 24-bit addressing) and System/370-XA, ESA/370, and ESA/390 (which had 31-bit addressing), DEC VAX, the NS320xx, the Motorola 68000 family (the first two models of which had 24-bit addressing), the 32-bit Intel IA-32 version of the x86 architecture, and the 32-bit versions of the ARM architectures,[5] SPARC, MIPS, PowerPC, and PA-RISC. The 32-bit instruction set architectures used for embedded computing include the 68000 and ColdFire, x86, ARM, MIPS, PowerPC, and Infineon TriCore architectures. Applications In the x86 architecture, a 32-bit application typically means software that typically (not necessarily) uses the possible 32-bit linear address space (or flat memory model) with the 80386 and later chips. In this context, the term arose because of, Microsoft Windows and OS/2[6] were originally written for the 8088/8086 or 80286, 16-bit microprocessors with a segmented address space where programs had to switch between segments to reach more than 64 kilobytes of code or data. Because this is quite time consuming compared to other machine operations, performance can suffer. In addition, programming with segments tends to get complicated; Special and close keywords or memory models had to be used (with care), not only in the assembly language, but also in high-level languages such as Pascal, compiled BASIC, Fortran, C, etc. 80386 and its successors fully support the 16-bit segments of 80286, but also segments for 32-bit address offsets (using the new 32-bit width of the main records). If the base address of all 32-bit segments is set to 0, and segment records are not explicitly used, segmentation can be forgotten and the processor appears to have a simple 32-bit linear address space. Operating systems such as Windows or OS/2 provide the ability to run 16-bit (segmented) programs as well as 32-bit programs. The first possibility exists for retrograde compatibility and the latter is usually intended to be used for the development of new software. In digital images/images, 32 bits usually refer to RGBA color space; that is, 24-bit truecolor images with an additional 8-bit alpha channel. Other image formats also specify 32 bits per pixel, such as RGBE. In digital images, 32-bit sometimes refers to high dynamic dynamic images formats that use 32 bits per channel, a total of 96 bits per pixel. 32-bit images per channel are used to represent brighter values than sRGB color space allows (brighter than white); these values can then be used to more accurately retain bright highlights by decreasing the exposure of the image or when it is seen through a dark filter or dull reflection. For example, a reflection on an oil stain is only a fraction of that seen on a mirror surface. HDR images allow reflection of highlights that can still be seen as bright white areas rather than dull gray shapes. File formats A 32-bit file format is a binary file format for which each elementary information is defined in 32 bits (or 4 bytes). An example of this format is the Enhanced Metafile Format. See also 64-bit history of 64-bit History of video games (32-bit era) Word (data type) Physical Address Extension References (PAE) ^ Patterson, David; Ditzel, David(2000). Readings in Computer Architecture. San Diego: Academic Press. p. 136. 9781558605398 ISBN. ^ IBM/360 Model 30 Functional Features (PDF) System. Ibm. August 1971. pp. 8, 9. GA24-3231-7. ^ 68000 users manual (PDF). ^ Gwennap, Linley (February 16, 1995). Intel's P6 uses dissociated superscale design (PDF). Microprocessor report. Retrieved December 3, 2012. ^ ARM Architecture Overview (PDF). ^ There were also UNIX variants for the 80286. External links HOW the material works How bits and bytes work Ken Colburn in LockerGnome.com: 32 Bits Vs. 64 Bits Windows Retrieved from

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