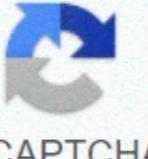


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Lenovo thinkpad battery reset

62 posts 09-08-2012 US 163 Signins 1027 Page Views Posts: 62 Registered: 09-08-2012 Location: US Views: 1027 Post 1/17 2013-04-13, 17:36 My T530 was new in September 2012, 9-cell, 94 Wh, 7740 mAh battery (Sanyo FRU 45N1007). Power Manager (v6.32) displays cycle volume 167, design capacity 93.24 Wh and full charge capacity 83.43.I have previously been satisfied with the 5-6 hour battery life, but recently it has shortened and shortened. Initially, the computer hibernation and shut down with about 15% left, then about 30%, then about 40%. I have battery maintenance set to start charging at 50% and stop at 90%, but every 2-3 months I switch it to a cycle or two to charge to 100%. Power Manager is set to notify me when a battery meter reset is recommended, but it has never done so. While writing this post, it hibernated and shut down with just over 50% left (4 hours.) When it was plugged in and restarted, it showed 6%. It seems to me that the battery meter doesn't correctly read the remaining charge/capacity/time, and that the meter reset should fix it, but there are many horror stories on this forum about the harmful effects of resetting the battery. So should I take a chance and perform a battery reset? Is there anything I should otherwise do differently with the goal of long battery life with reasonable operating time? 9644 Posts 12-27-2009 CA 3312 Signins 95273 Page views Posts: 9644 Registered: 12-27-2009 Location: CA Views: 95273 Post 2/17 2013-04-13, 18:13 At this point, it sounds like a reset of the meter is necessary. In general, the harmful effects come from resetting the battery, which makes the problems explicitly obvious rather than hiding behind the wrong full amount of charge. However, I recommend that you do not use power-intensive applications when reset is in the discharge section. W520: 2960XM, Q2000M @ 1091/1380, 32 GB RAM, 500 GB&#amp;750 GB hard drive &#amp; 500 GB SSD, FHD&#amp;MB168B+X61T: L7500, 4 GB RAM, 500 GB hard drive, XGA display, UltrabaseW550s: 5600U, K620M at 1164/1281, 16GB RAM, 512GB SSD, 3K touchscreenX200s: SL9400, 6GB RAM, 64GB SD card, WXGA+ screenTP1: 1839-23U 62 Posts 09-08-08 2012 US 1 63 Signins 1027 Page Views Posts: 62 Registered: 09-08-2012 Location: US Views: 1027 Message 3/17 2013-04-13, 7:20 PM Thank you, Colonel, for convincing. I need to get past all the messages from people who have said that reset drastically reduced the capacity of their battery. During the day, I'll be upstairs hooked up. In the evenings, I take it downstairs on top of the battery to watch TV, while I might do something mindless and laborious, like Photoshop dust extraction in some old photos and scanned slides. 4-6 hours has served well until recently, but now only 2-3 hours before it hibernates and shuts down (presumably) 50% and 3-4 hours left. One more thing before I try to reset. I just charged you. Just 100% that I try to do every 2-3 months for one or two cycles. (Otherwise, it charges 90-95%) If I don't see better battery life and meter accuracy tonight, I'll make a reset. I guess the best thing is to start resetting, close the computer cover and let it sit overnight. 9644 Posts 12-27-2009 CA 3312 Signins 95273 Page views Posts: 9644 Registered: 12-27-2009 Location: CA Views: 95273 Post 4/17 2013-04-13, 20:42 Ultimately, your system has the potential to end up with the same reduced capacity. You may lose the 50-6% range (44%), but based on what it looks like, the battery doesn't really have that capacity. However, losing 44 per cent battery capacity in less than a year is unusual, so you should be able to invoke your one-year standard battery warranty and get a replacement. The W520's 9-cell is 87.61Wh (down from 93.24Wh), and I've been running it for 140 cycles since August 2011. W520: 2960XM, Q2000M @ 1091/1380, 32GB RAM, 500GB&#amp;750GB HDD &#amp; 500GB SSD, FHD&#amp;MB168B+X61T: L7500, 4GB RAM, 500GB HDD, XGA screen, UltrabaseW550s: 5600U, K620M at 1164/1281, 16GB RAM, 512GB SSD, 3K touchscreenX200s: SL9400, 6GB RAM, 64GB SD card, WXGA+ screenTP1: 1839-23U 62 Posts 09-08-2012 US 163 Signins 1027 Page Views Posts: 62 Registered: 09-08-2012 Location: US Views: 1027 Message 5 of 17 2013-04-13, 21:03 PM I believe you are correct. Despite the huge number of readings I have made on battery life, maintenance and technology, I really don't feel I understand it well. The fact is that I got this computer in September (2012) and in December I noticed that it shut down faster and faster, first by 30%, then by 35%. I contacted Lenovo to ask what the problem was and what to do about it, and a CS spokesman said it sounded like faulty battery. He sent me a new FedEx on the second day express. I used a new battery for a couple of cycles. It seemed to work well, so I put it aside and (out of curiosity) put the old one back in. They are exactly the same, but luckily I marked the old #1 and the new #2. Now that I look at them, I realize I used the original and supposedly defective battery. I can't complain- and I can't complain - because the battery replacement was quick and painless. I probably haven't gotten anything (much) using an old battery in the last 3 months because I assume the batteries will start aging from the moment they're manufactured. (I'm the only one who's up to, as usual.) So I think the best thing is to reserve an old battery, use a new battery, and not worry about it. After 18-24 months, when this battery does not give me enough time disconnected, spend \$80 on a new one and enjoy it. 9644 Posts 12-27-2009 CA 3312 Signins 95273 Page views Posts: 9644 Registered: 12-27-2009 Location: CA Views: 95273 Post 6/17 21:21 Batteries are starting to age, but not at that speed. I think a few cells inside went wrong, and you don't really need the charge. Since you already have a new battery, I'd probably use it for now. Interestingly, however, they didn't ask the old one back. At least now you have a spare battery, albeit in poor condition. I'd probably try to reset the bad one as well, because you have nothing to lose. W520: 2960XM, Q2000M @ 1091/1380, 32GB RAM, 500GB&#amp;750GB HDD &#amp; 500GB SSD, FHD&#amp;MB168B+X61T: L7500, 4GB RAM, 500GB HDD, XGA screen, UltrabaseW550s: 5600U, K620M at 1164/1281, 16GB RAM, 512GB SSD, 3K touchscreenX200s: SL9400, 6GB RAM, 64GB SD card, WXGA+ screenTP1: 1839-23U 62 Posts 09-08-2012 US 163 Signins 1027 Page Views Posts: 62 Registered: 09-08-2012 Location: US Views: 1027 Message 7 of 17 2013-04-13, 21:53 PM That seems like good advice. If it doesn't work better tonight (after being charged 100%) I'll let it reset overnight and see if it works. I don't expect it to, but like you said, I don't have much to lose. I guess (based on what I read and your comments) that the original battery had some cells that went bad during the first 2-3 months of use. I assume that since Lenovo didn't want the original battery recovery (I asked), I could use it when I only need 2-3 hours of battery life. When I'm traveling or in a long meeting, I could use a new battery. (It has sat for 3 months on a 70% charge.) I think the normal reduction in battery capacity is a combination of time + cycle count, so the replacement battery can take quite a long time if it is mostly kept 40-70% charged and used only occasionally. (???) 9644 Posts 12-27-2009 CA 3312 Signins 95273 Page views Posts: 9644 Registered: 12-27-2009 Location: CA Views: 95273 Post 8/17 2013-04-13, 22:14 The new battery should last well, charging that it is also not defective. Extra heat is also not good for the battery, so avoid leaving it in a hot car or something. In addition, the battery is not completely discharged frequently. W520: 2960XM, Q2000M @ 1091/1380, 32 Gt RAM-muistia, 500 Gt&#amp;750 Gt HDD &#amp; 500 Gt SSD, FHD&#amp;MB168B+X61T: L7500, 4 Gt RAM-muistia, 500 Gt HDD, XGA-näytö, UltrabaseW550s: 5600U, K620M klo 1164/1281, 16 Gt RAM-muistia, 512 Gt SSD, 3K kosketusnäytöX200s: SL9400, 6 Gt RAM-muistia, 64 Gt SD-korttia, WXGA+ screenTP1: 1839-23U 62 Viestit 09-08-2012 US 163 Signins 1027 Sivunäkymät Viestit: 62 Rekisteröity: 09-08-2012 Sijainti: US Views: 1027 Viesti 9/17 2013-04-14, 17:08 Utelias ja utelias.... Although I have no idea for a reason or explanation, something strange just happened. In summary: The 6-month-old T530 (with the original battery) has been shut down (hibernation, then

shutdown) earlier and earlier in recent weeks, initially about 20%. Previously, this it closed ~50% ~50% Left. Yesterday I installed it charging 100% (although it stopped at 99%). instead of the usual 92% or 95% download setting. After this charge, it only shut down when it was emptied to 15%, and when it was turned back on, it showed 15% left (whereas previously after returning from hibernation it showed 6% left.) Apparently, there was no need to reset the battery meter. (Or else this battery is flaky.) I've read that these batteries can't stand a full drain, which isn't a problem because the computer turns itself off before reaching critical levels (which currently appears to be 15% in this unit.) I have read that these batteries do not like full charging and will live longer if they are charged to only 90-95%. I have also read that the battery should be fully charged 100% every 3 months or so to improve its longevity. Based on current experience, I believe that I set my download threshold to start charging to 80% and stop at 90 or 92 or 95% (charging it regularly) and for one cycle every 2-3 months complete it for a 100% payment. (I'll keep a close eye on things for the next few episodes and release an update if anything changes.) 0 people found this solution useful. This also helped me with 62 posts 09-08-2012 US 163 Signins 1027 Page Views Posts: 62 Registered: 09-08-2012 Location: US Views: 1027 Post 10/17 2013-04-14, 17:17 PM Additional note re: mSSDAs I understand that, hibernation involves dumping ram contents on your hard drive before shutting down. Since I have 16GB of RAM, it means that a 16GB slice of the drive is reserved for this purpose. C: the drive (system drive) is 256GB mSSD in a mSATA location, so I assume the RAM image goes there, causing unnecessary wear and abyss in SST memory. (I've let this happen a few times just to see how low the battery would discharge before turning off, but more often I was left unaware of the shutdown in the middle of the mission.) I would like the RAM image in sleep mode to go to the 750GBx7200 hard drive if there was a way to make it happen. (Because speed isn't really a problem with hibernation or resume.) Forum Home Introduction Special Events ThinkPad Notebooks ThinkBooks Lenovo Notebooks Lenovo Phones Lenovo Mirage AR Gaming – Lenovo Legion ThinkPad Tablets Lenovo Tablets Yoga Book Community ThinkCentre Desktops Lenovo Desktops ThinkStation Datacenter Systems Datacenter Storage Information Center Network Center System Management External Displays, Alternatives and Accessories Virtual & Mixed Reality VR Classroom Software and Operating System Smart Office Smart Home Lenovo Developer Community Special Interest Discussions Linux Operating Systems Ideation - Idea Exchange Check out our instructions before shipping. Read more Ideation sections have been created so customers can communicate with us by chatting and promoting and improvements related to the Lenovo products and services. As a reminder that your participation in Ideation is governed by the terms of use of the Lenovo website [link] and lenovo forum community guidelines. The idea programme includes the terms and conditions of the idea, which can be found here. For your assistance, here's a quick summary of the highlights: This area is for ideas – to improve our products or suggest completely new products – keep technical support issues in other tables designated for this purpose You give your ideas freely available so we can improve our offerings the ideas you give you are yours and not confidential If we decide we want to use your idea exclusively , you agree to sell it to us at a fixed price Click yes below that you have read and accepted the Community Guidelines and The Terms of Ideas, and you acknowledge that by posting ideas, materials or information on the Ideation Website, you give Lenovo the right to use all of your such broadcasts in any way without acknowledging, notifying or replacing you as described in these documents. No, I don't want to share ideas Yes, I accept these terms

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