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Linux Day 2023

23 anni di Linux Day

Aula Li Donni
Teatro Gregotti
Università di Palermo

Gnu+Linux Kernel
Nuove frontiere

Ing.
Vincenzo
Virgilio
Pres. Sputnix

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Sconto 20% sulla certificazione agli iscritti al Linux Day

Linux Day 2023

	Linux Day 2023-10-28+29	www.SputniX.it
	Iscriviti	https://forms.gle/9F15gf5DuBZYzbsf8
	Iscrivi la tua classe	https://forms.gle/wQtXLoDwmR2E45k48
	sabato 28 ottobre 2023	**Sessione Generale – Aula Magna Li Donni – Viale delle Scienz**
09:00	Saluti istituzionali	**Francesco Lo Cascio – Presidente SiciliaDigitale**
09:30	Vincenzo Virgilio	Linux Kernel, nuove frontiere
10:00	Jon maddog Hall	Why Free Software?
11:00	Max Roveri	Upgrade To Linux: one year campaign
11:45	Simone Bertulli	Percorsi di certificazione in Linux Security
12:30	Corrado Tiralongo	Certificazioni e competenze, tra pubblico e privato

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	sabato 28 ottobre 2023	**Next intelligence – Teatro Gregotti – Viale delle Scienze**
15:00	Vincenzo Virgilio	Linux on a Commodore 64
15:30	Corrado Tiralongo	Linux Gaming: The next generation
16:00	Daniele Mondello	AI e lavoro. Conviene investire in un Developer Junior?
16:30	Francesco Passantino	AI Open Source, inevitabile modello di sviluppo?
17:15	Bertolino Adriano	L'impatto sul GDPR del AI Act
18:00	Simone Bertulli	Linux e Cyber Security: scenari e soluzioni in contesti professionali
	domenica 29 ottobre 2023	**Open Round Table – Teatro Gregotti – Viale delle Scienze**
09:00	Registrazione partecipanti	
09:30	Jon maddog Hall	Project Caua
10:00	Jon maddog Hall, Max Roveri, Simone Bertulli, Corrado Tiralongo etc	**Lo Zen e l'arte dell'Open Source**

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Grazie a LPI

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Kernel 6.0

- **One of the bigger releases at least in numbers of commits in a while, thanks largely to the inclusion of “15k non-merge commits in there in total”**

Linux Day 2023

Kernel Linux al 2022-10-22

- **Longterm: 5.15.74 2022-10-15**
- **Stable: 5.19.16 2022-10-15**
- **Stable: 6.0.2 2022-10-15**
- **mainline: 6.1-rc1 2022-10-16**

Kernel Linux al 2023-10-25

- **Longterm: 5.15.137 2022-10-25**
- **Longterm: 4.19.297 2023-10-25**
- **Stable: 6.5.9 2023-10-25**
- **mainline: 6.6-rc7 2023-10-22**

The Linux Kernel Archives

seconds

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Protocol	Location
HTTP	https://www.kernel.org/pub/
GIT	https://git.kernel.org/
RSYNC	rsync://rsync.kernel.org/pub/

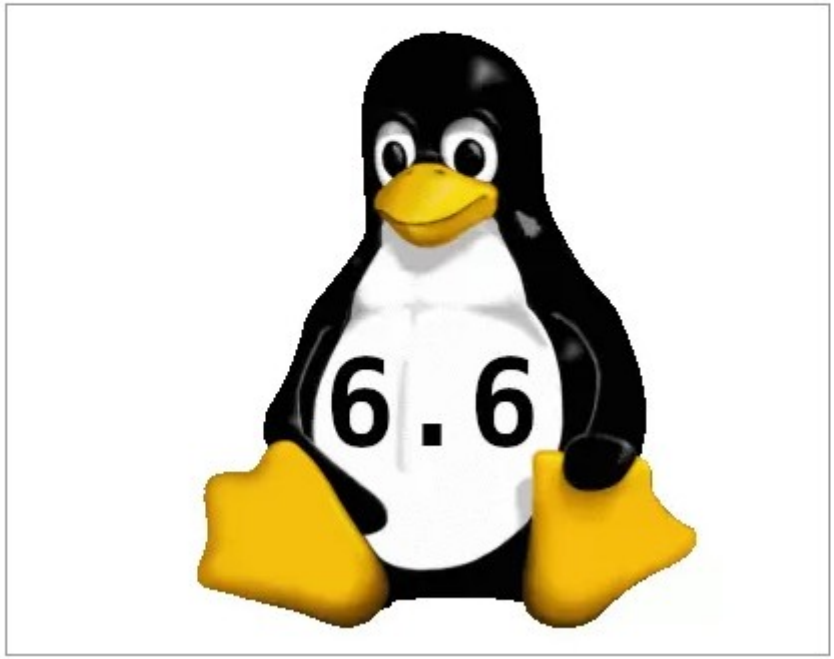
Latest Release
6.5.9

mainline:	6.6-rc7	2023-10-22	[tarball]		[patch]	[inc. patch]	[view diff]	[browse]
stable:	6.5.9	2023-10-25	[tarball]	[pgp]	[patch]	[inc. patch]	[view diff]	[browse] [changelog]
longterm:	6.1.60	2023-10-25	[tarball]	[pgp]	[patch]	[inc. patch]	[view diff]	[browse] [changelog]
longterm:	5.15.137	2023-10-25	[tarball]	[pgp]	[patch]	[inc. patch]	[view diff]	[browse] [changelog]
longterm:	5.10.199	2023-10-25	[tarball]	[pgp]	[patch]	[inc. patch]	[view diff]	[browse] [changelog]
longterm:	5.4.259	2023-10-25	[tarball]	[pgp]	[patch]	[inc. patch]	[view diff]	[browse] [changelog]
longterm:	4.19.297	2023-10-25	[tarball]	[pgp]	[patch]	[inc. patch]	[view diff]	[browse] [changelog]
longterm:	4.14.328	2023-10-25	[tarball]	[pgp]	[patch]	[inc. patch]	[view diff]	[browse] [changelog]
linux-next:	next-20231026	2023-10-26						[browse]

- 25 Ottobre 2023

Linus Torvalds today released the seventh weekly release candidate of Linux 6.6 while is hoping to release the stable kernel version next weekend.

Barring anything major coming up in the week ahead, Linux 6.6 stable will be out next Sunday on 29 October. If anything major does come up, Linux 6.6-rc8 would instead be issued and punt the stable release out to the first weekend in November.



New features 6.6

- EEVDF Earliest eligible virtual deadline first Scheduler progettato nel 1995, sostituisce Completely Fair Scheduler introdotto nel kernel nel 2007
- Shadow Stack, protecting a procedure's stored
- Intel Vision Sensing Controller IVSC,
- AMD DBC Dynamic Boost Control improve the power/performance.
- KSMBD in-kernel SMB3 server
- user-space API NVK Nvidia Vulkan driver in Mesa
- HP BIOS settings driver
- USB MIDI 2.0
- ReiserFS "obsolete" set for removal in 2025.

Linux Kernel 6.6 Improves Security

RISC-V KASLR support

- A significant improvement in these recent updates is that the RISC-V Linux kernel now has better security. They have added Kernel Address Space Layout Randomization (KASLR). What this does is mix up the locations where things are stored in the computer’s memory. This makes it really tough for attackers to figure out where specific things are in memory, making it harder for them to carry out attacks. Other computer chips have had this feature for a while, and now RISC-V with Linux 6.6 also has it. They worked on it for a few months, made some changes, and now it’s ready for use in Linux 6.6.

Hyper-V Support

- Microsoft’s ongoing efforts to enhance Hyper-V support within the Linux kernel continue to yield benefits for Linux guest virtual machines running on the Windows hypervisor. In Linux 6.6, the Hyper-V code has been expanded to include support for SEV-SNP secure guests on AMD EPYC processors, while on the Intel Xeon Scalable Sapphire Rapids platform, initial support has been introduced for Trust Domain Extensions (TDX) to protect guest environments.
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- Hyper-V virtual machines can now leverage the security advantages of EPYC 7003 and newer processors supporting Secure Encrypted Virtualization Secure Nested Paging (SEV-SNP) for better security.
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BPF Improvement

- This kernel series includes new features like support for BPF-based MPTCP (Multi-Patch TCP) packet schedulers and several BPF enhancements. These enhancements include multi-buffer support in AF_XDP, attaching multiple uprobes and USDT probes with multiple uprobe BPF links, defragmenting IPv4/IPv6 packets in BPF, and other improvements.
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