

Recent kernel activity watch

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Who am I?

- Kernel watch (@IT)の中の人
- 日本での数少ないLinux kernel ジャーナリスト
- Developも若干たしなむ

2008年のLKMLでのコミットレート

- Signed-off-by数がTOP10%にぎりぎり入るくらい
- mm/ ディレクトリ以下に限定すると10位
- Reviewed-by 数はLKML全体で7位

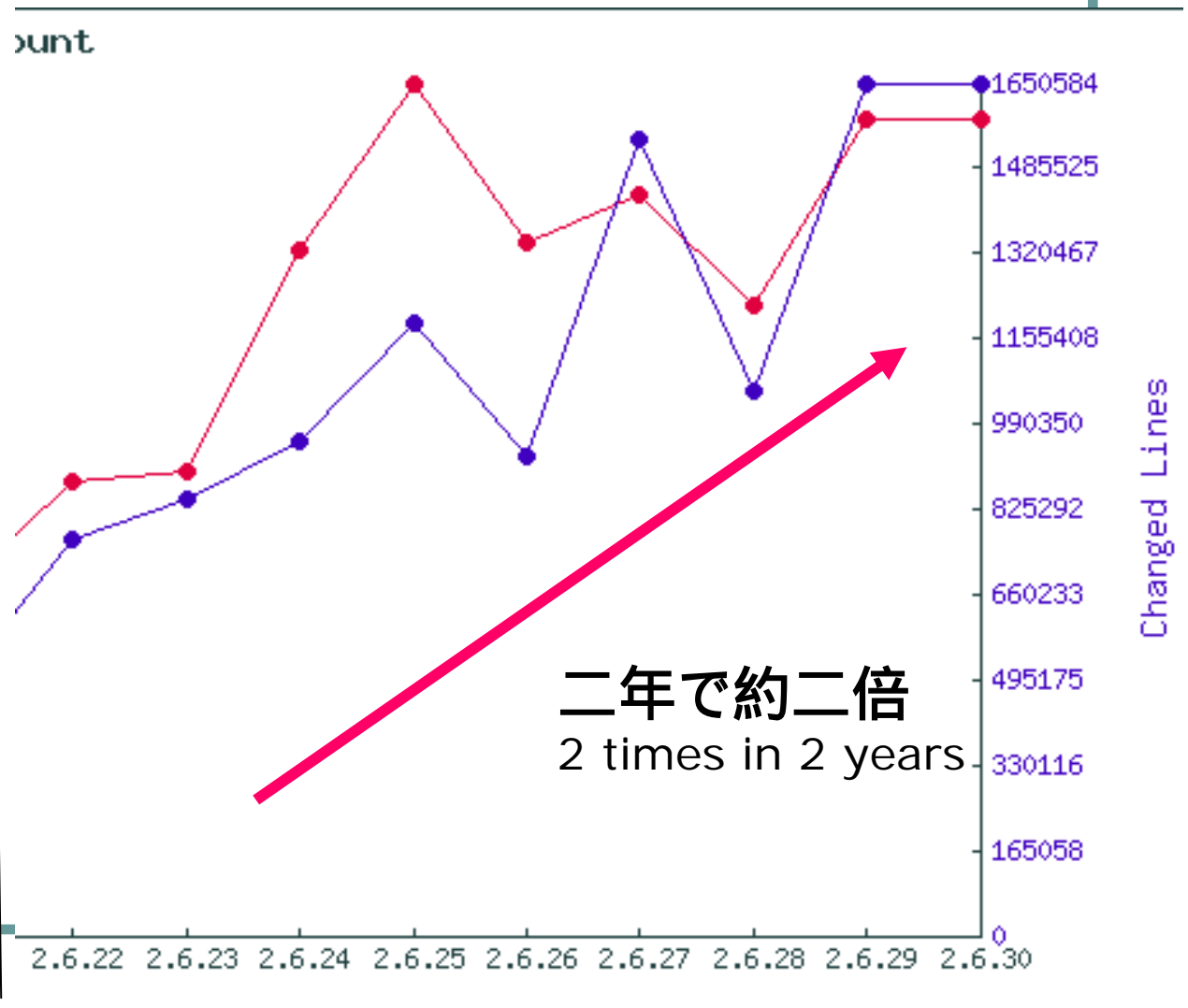
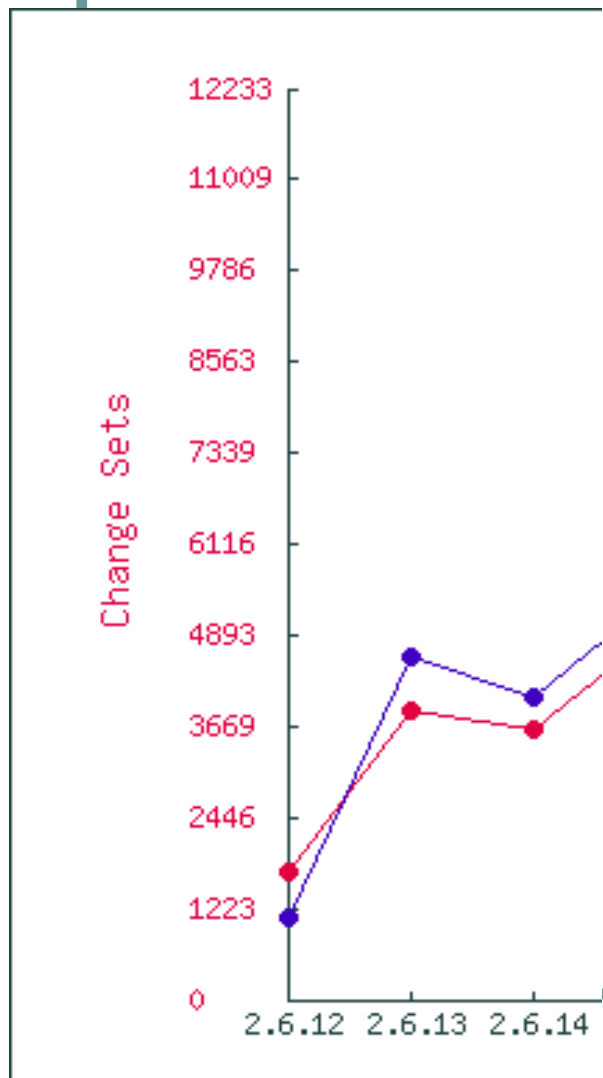
今日は何を話すの？

- 最近のLKMLの傾向とか
- 最近のパッチとか
- 雑談…

- ツッコミ歓迎

過去2年のコミット数推移

Increase of commits in passed 2 years



2.6.30のコミット・レート

2.6.30 Commit Rate

Total patch sets of this release: 11729

187 company contribute their works to this release.

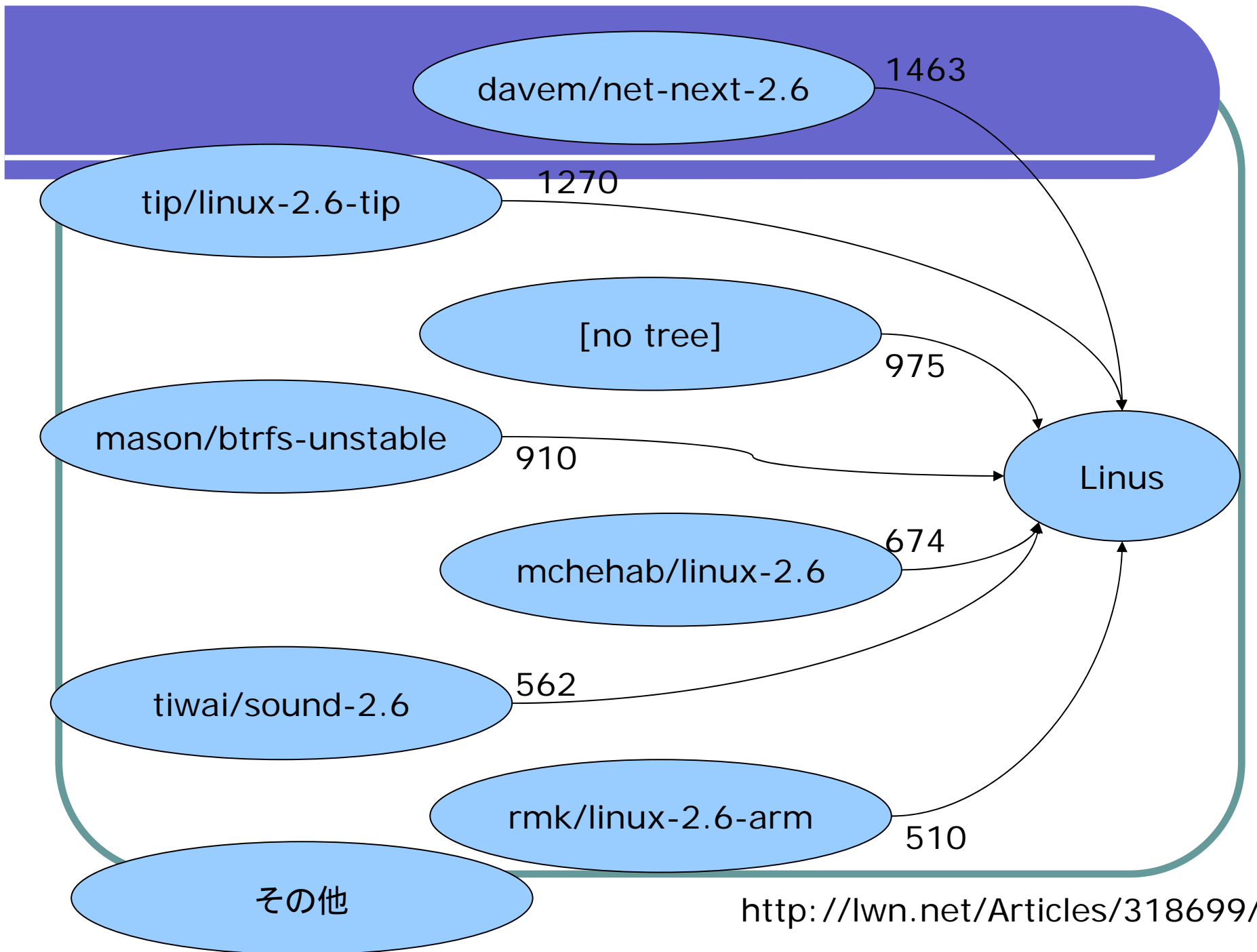
Averagely, every company committed 62 patch sets.

⊕No.1	Hobbyists	1954 (16.66%)
⊕No.2	Unknown	1574 (13.42%)
⊕No.3	Redhat	1305 (11.13%)
⊕No.4	Novell	866 (7.38%)
⊕No.5	INTEL	859 (7.32%)
⊕No.6	IBM	643 (5.48%)
⊕No.7	Oracle	334 (2.85%)
⊕No.8	Consultants	328 (2.80%)
⊕No.9	Atheros	272 (2.32%)
⊕No.10	Fujitsu	240 (2.05%)
⊕No.11	Vyatta	204 (1.74%)
⊕No.12	Academics	167 (1.42%)
⊕No.13	Renesas Tech	152 (1.30%)
⊕No.14	Citrix	137 (1.17%)
⊕No.15	NTT	121 (1.03%)
⊕No.16	HP	113 (0.96%)
⊕No.17	Nokia	108 (0.92%)
⊕No.18	Wolfson Microelectronics	107 (0.91%)
⊕No.19	SGI	89 (0.76%)
⊕No.20	MontaVista	88 (0.75%)
⊕No.21	Pengetronix	86 (0.73%)

マージウィンドウ、それ以外

Merge window, and the others

- `% git shortlog -s v2.6.29..v2.6.30-rc1 |awk '{sum=sum+$1} END{print sum}'`
- 10236
- つまり、9割程度がマージウィンドウでのマージ。
 - 90% of the patches are merged within the merge windowing term
- 今の開発サイクルはうまくいっていると言ってよさそう
 - Recent development cycle should be working fine



<http://lwn.net/Articles/318699/>

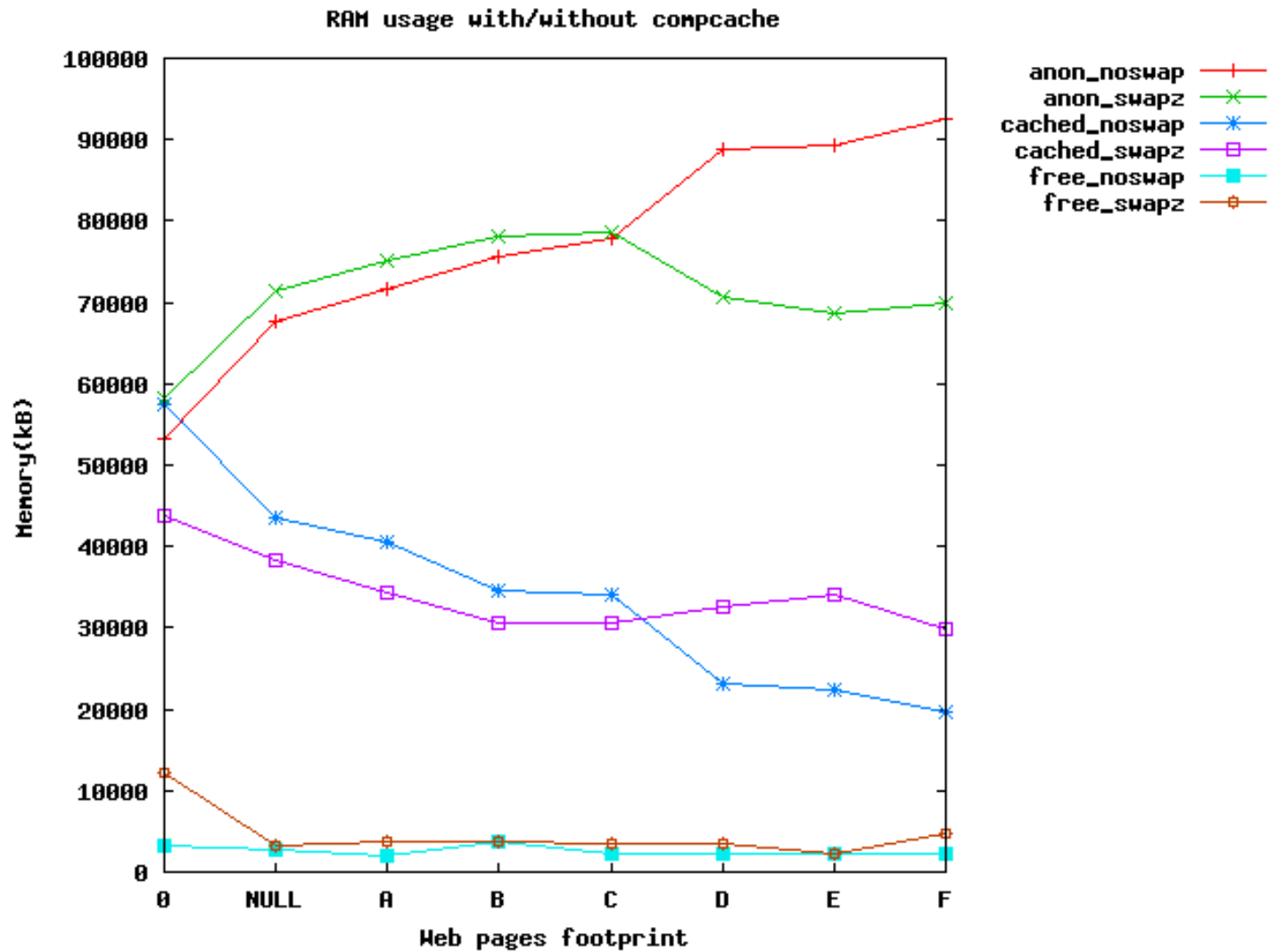
最近の注目パッチとか

Recent attractive patches

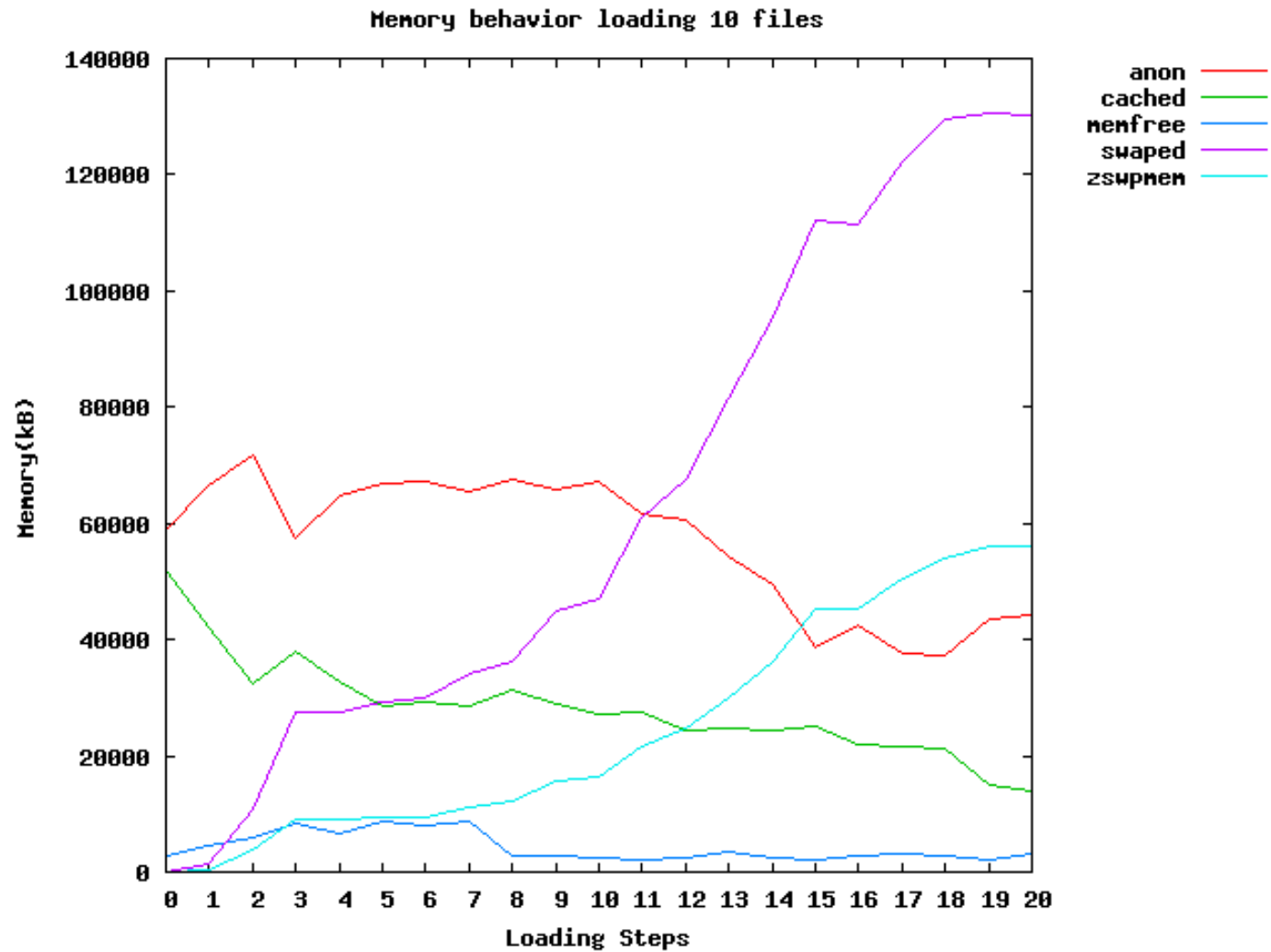
Compcache

- RAM based block device as swap disk
- LZO compression
- Nack because MM developer dislike xvmalloc

Compcache cont



Compcache cont



More compress kernel image

- Support LZMA/BZIP2
- LZMA can compress 30% smaller than GZIP.
- Halleluya! :-)

/dev/mem_notify on memcg

- **組み込み界限からの労作**
 - A great work by embedded system domain
- **特に反応もないままスルーされてしまった**
 - No reaction from community and no one responded

理由 : Reason

気づか
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か
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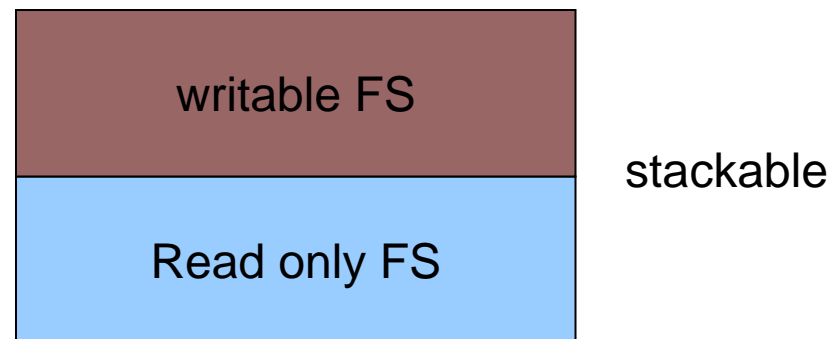
No one in community was aware of the patch!!

Per-bdi writeback flusher thread

- bdi mean “backing-device-information”
- Disk and flash have very different performance characteristic.

VFS based Union mount

- NACKed other previous Union FSs.
- completely VFS based



relink

- new syscall derived from ocfs2.
- Filesystem independent copy-on-write.
- Dramatically improve copy performance.

devtmpfs

- Devfs again ;)
- 0.6 second faster boot-time
- Let's flame war!