

Introduction to git (git 入門)



Junio C Hamano
<junio@kernel.org>

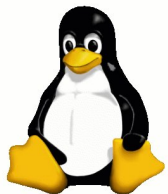
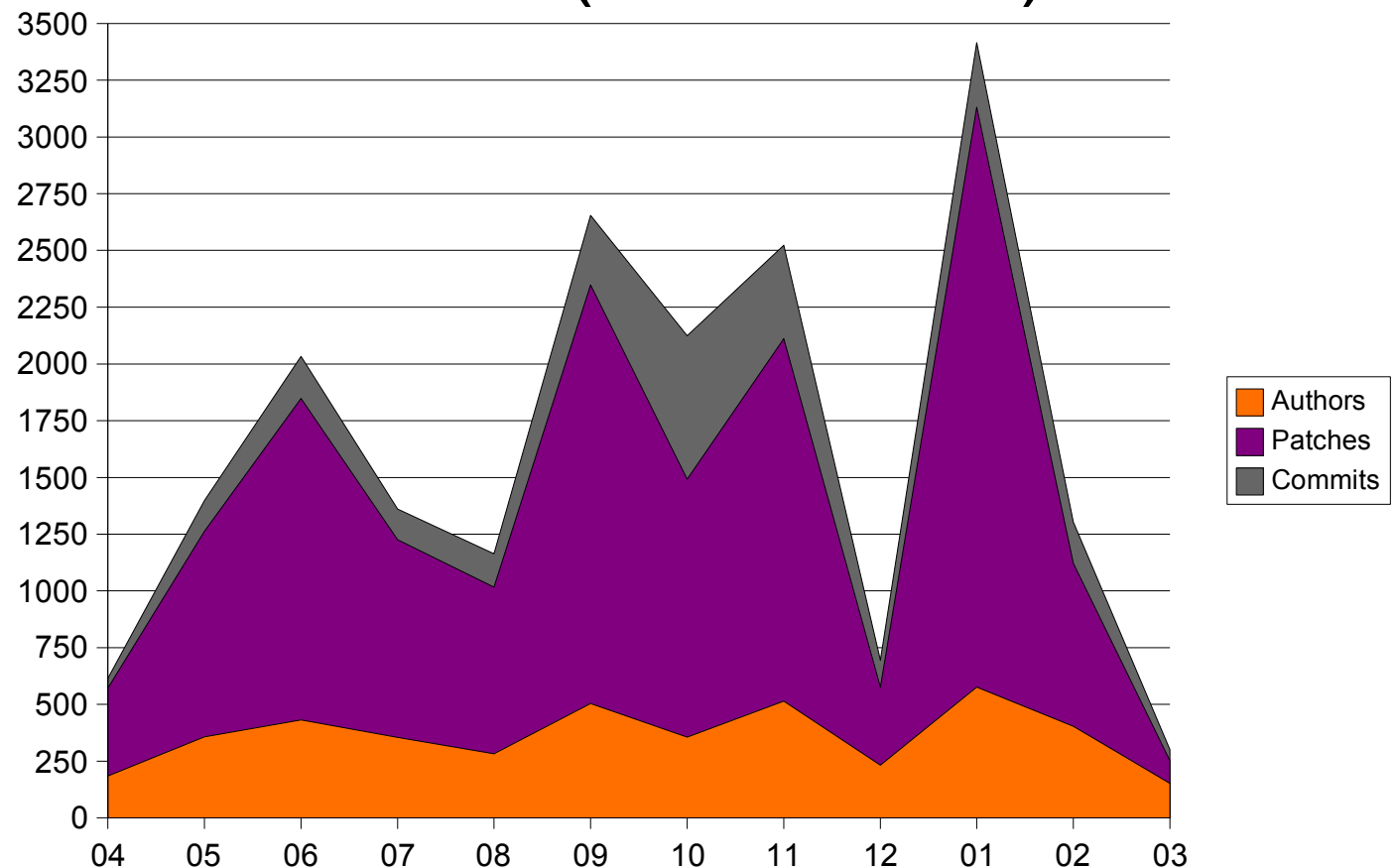
git - a stupid content tracker

- Started by Linus Torvalds in Apr 2005.
- Originally designed for the kernel project.
- Supports:
 - Distributed, highly parallel development style.
 - Large project, many small changes.
- Used by non-kernel projects, too.
 - Wine, xcb, Cairo, U-boot, xmms2,...



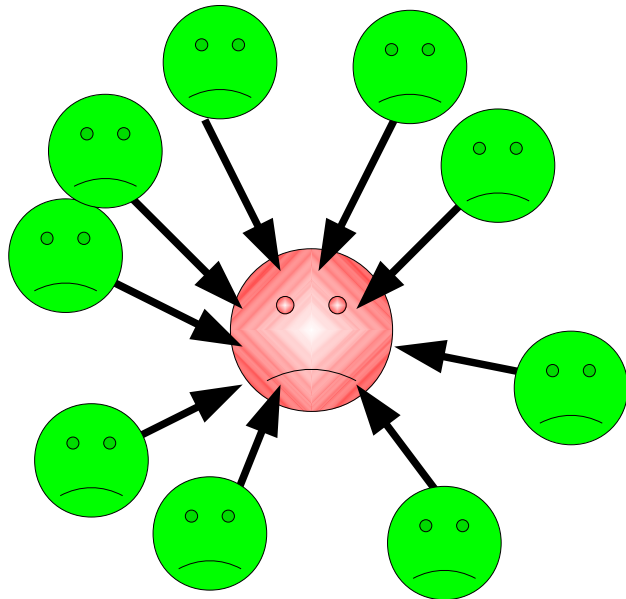
Kernel project is very active

- 100+ contributors (パッチ提供者)
- 1000+ patches/month (毎月何千も)



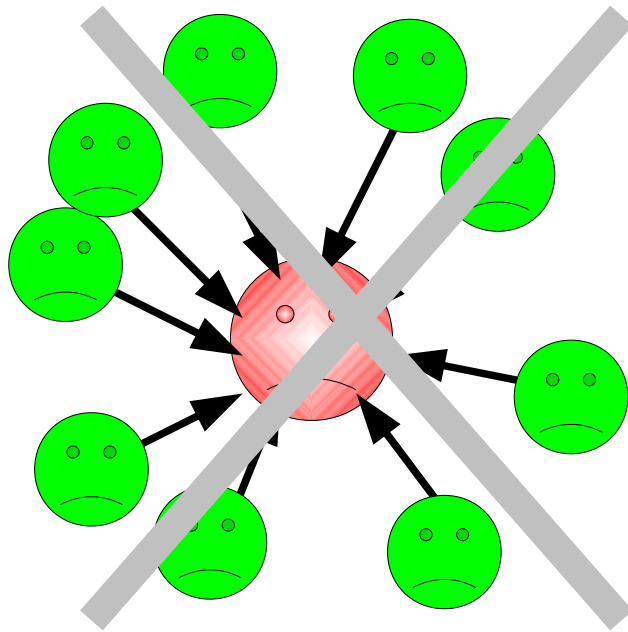
Distribution is the key (分散開発が鍵)

- Working on fixes and enhancements
- Integrating others changes



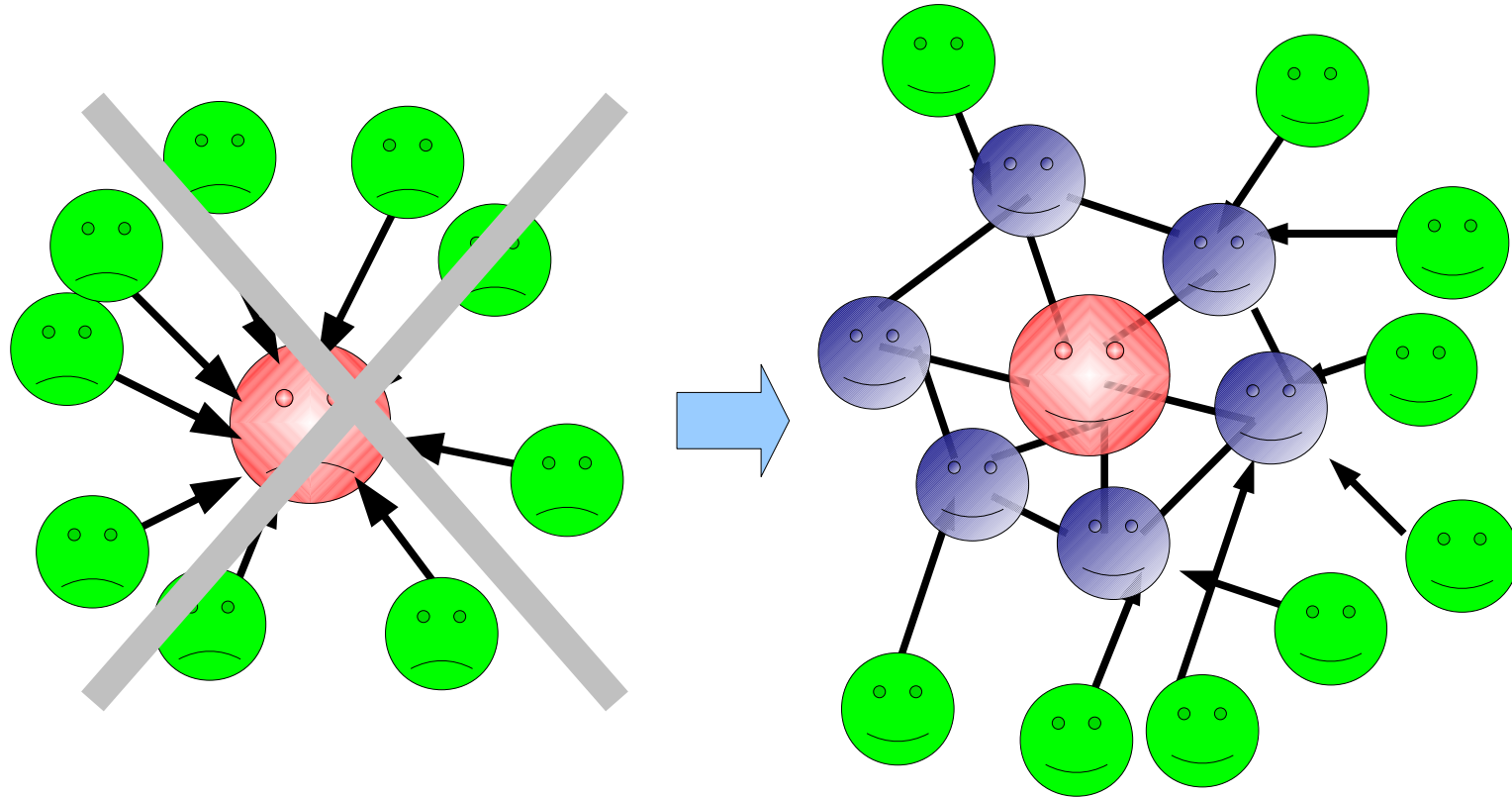
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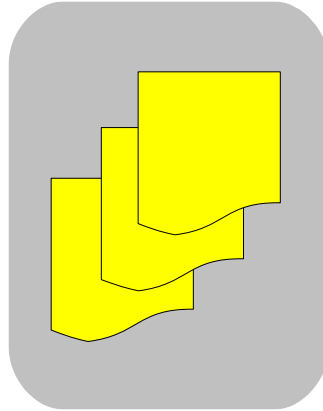
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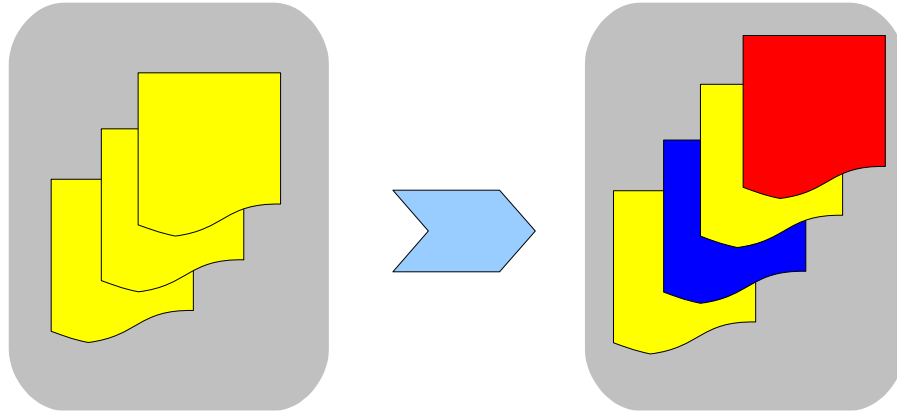
Terminology (用語)

- Tree
 - Project State



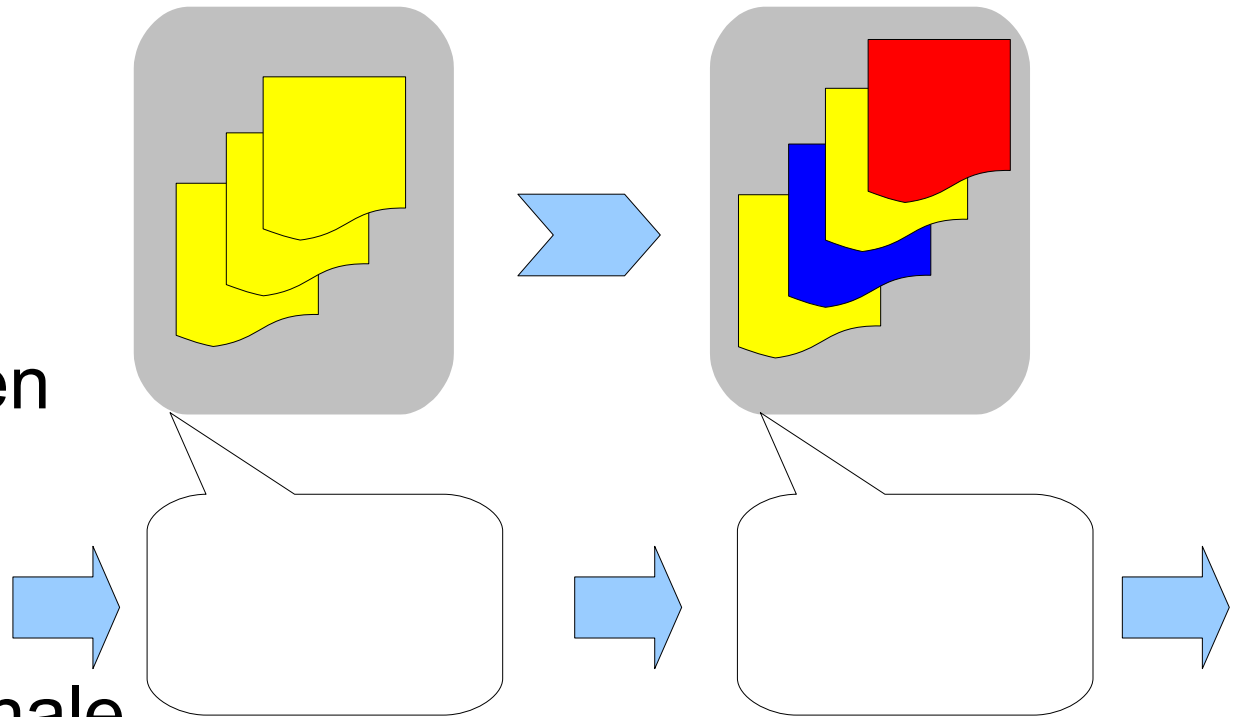
Terminology (用語)

- Tree
 - Project State
- Patch
 - Change between trees



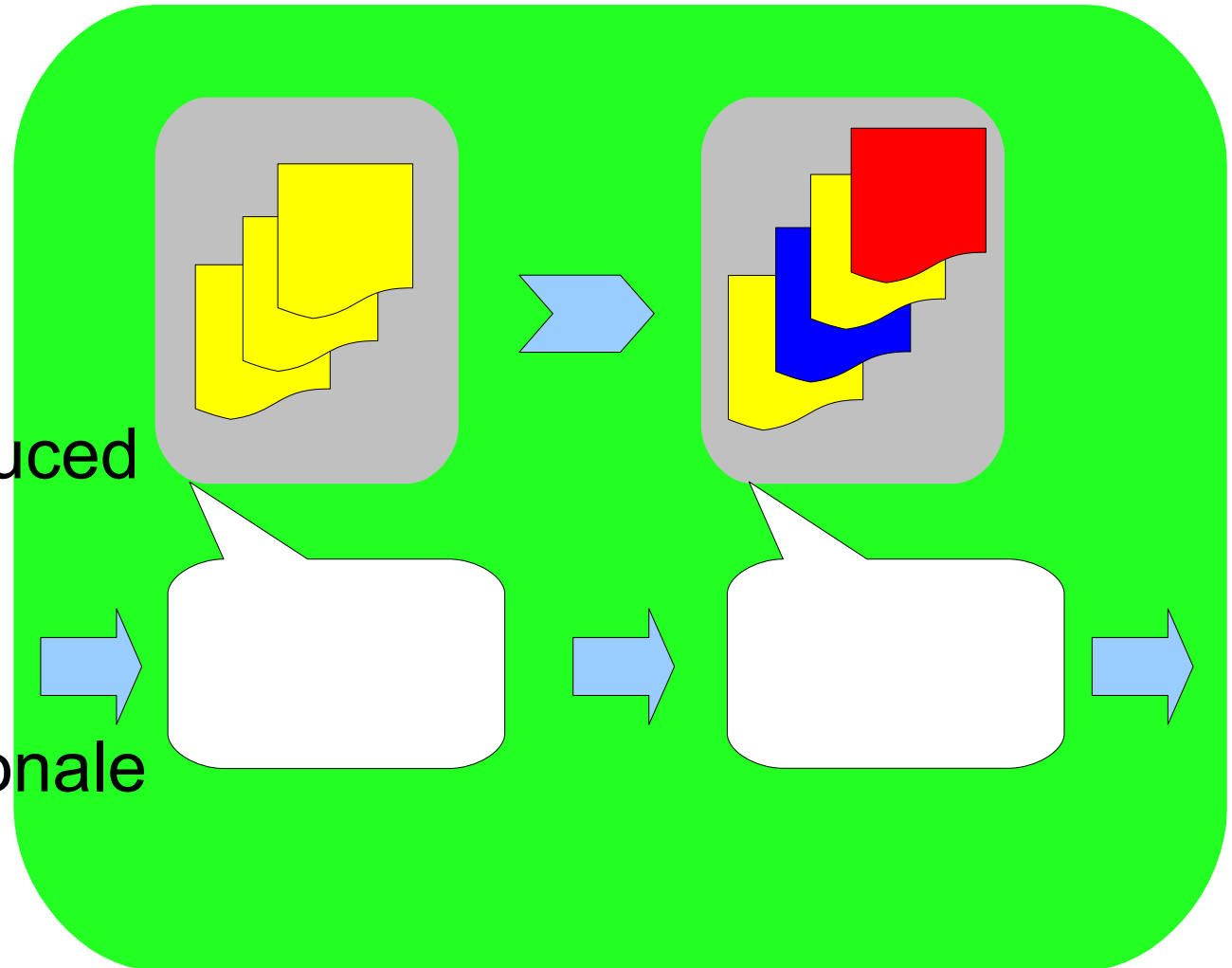
Terminology (用語)

- Tree
 - Project State
- Patch
 - Change between trees
- Commit
 - History & Rationale



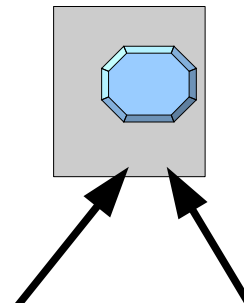
Terminology (用語)

- Tree
 - Project State
- Patch
 - Change introduced by a commit
- Commit
 - History & Rationale
- Repository



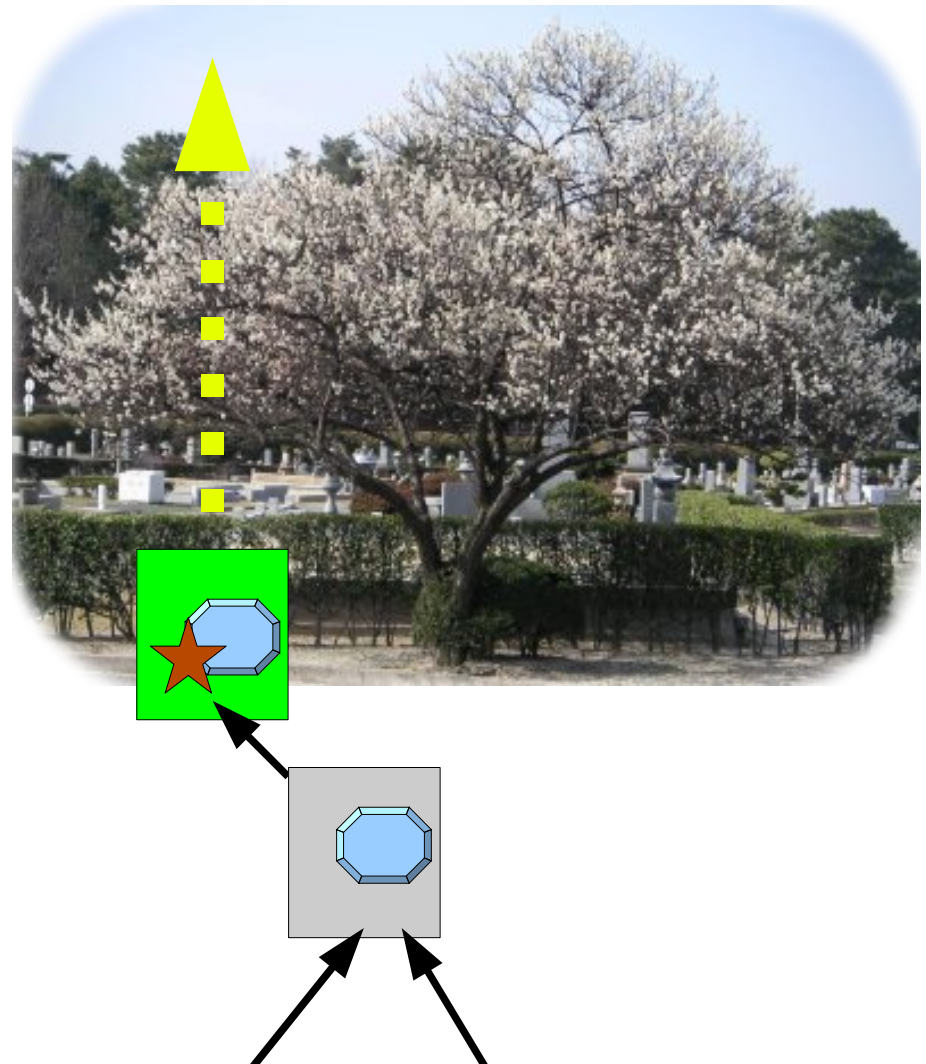
Branching (枝分かれ)

- No single repository is inherently “authoritative”.
 - Linus's tree is authoritative by social convention.



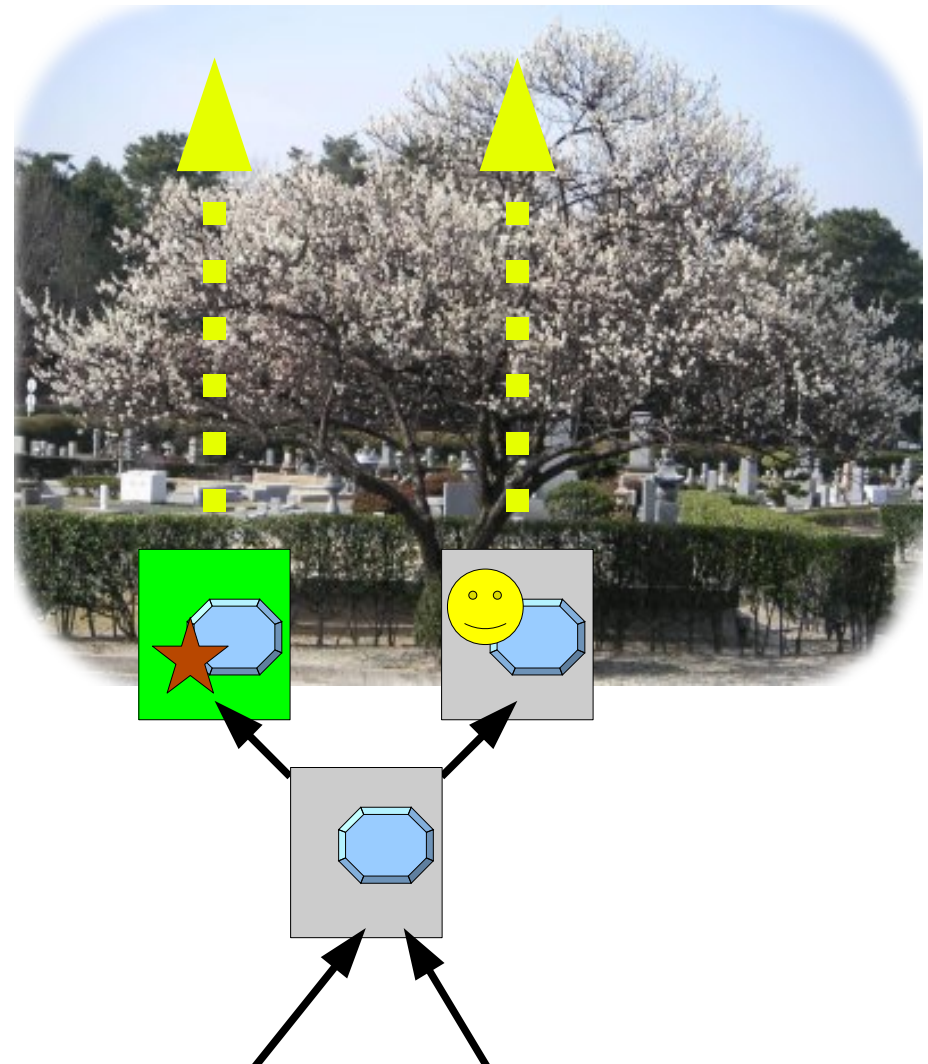
Branching (枝分かれ)

- No single repository is inherently “authoritative”.
- Everybody can fork and make his own changes.
 - Clone a repository
 - Create a branch



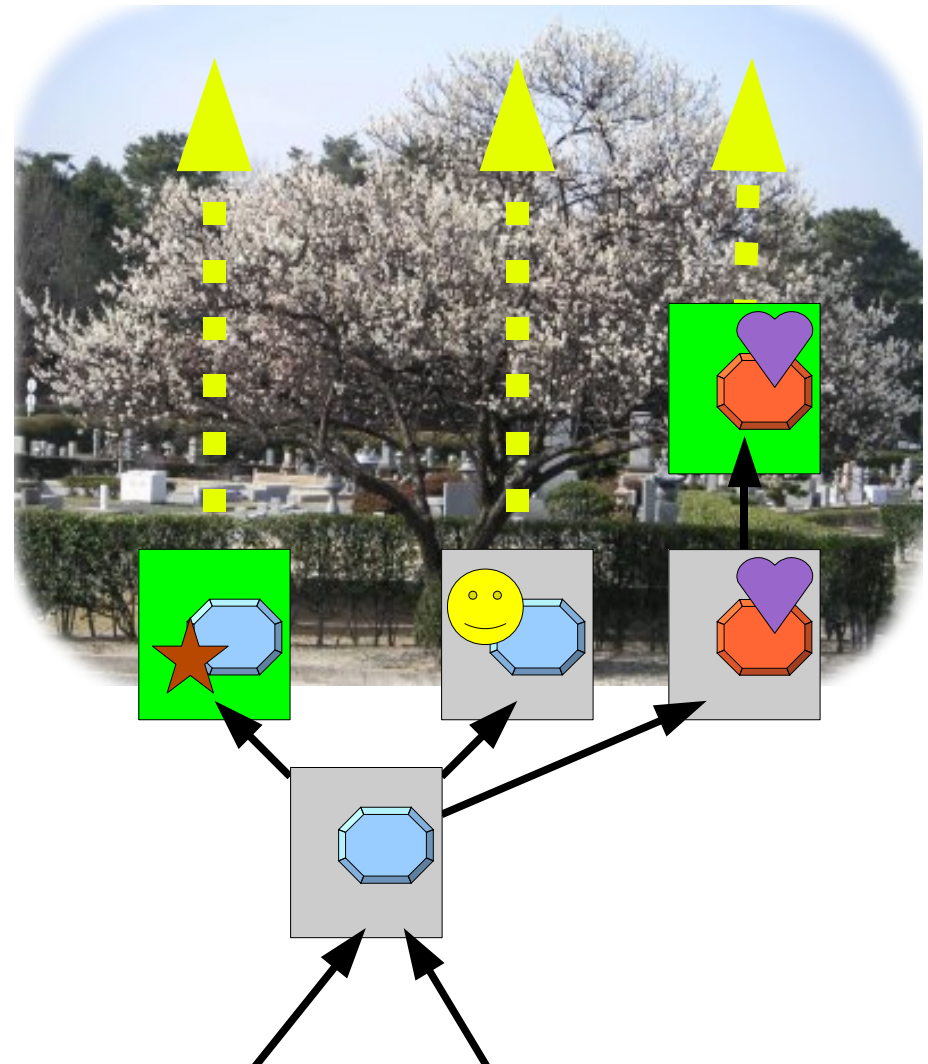
Branching (枝分かれ)

- No single repository is inherently “authoritative”.
- Everybody can fork and make his own changes.
- Typically, a branch is used to work on a single “topic”. (テーマ毎の枝)



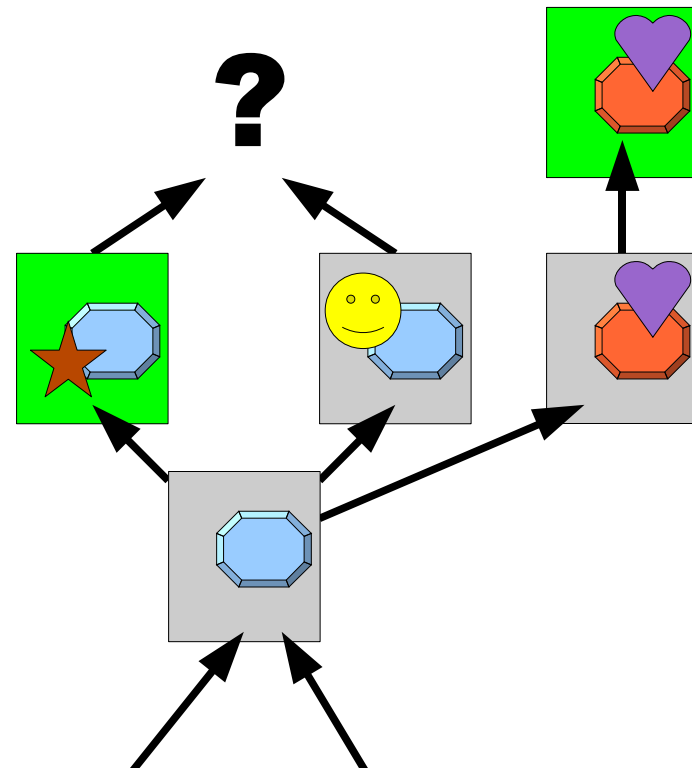
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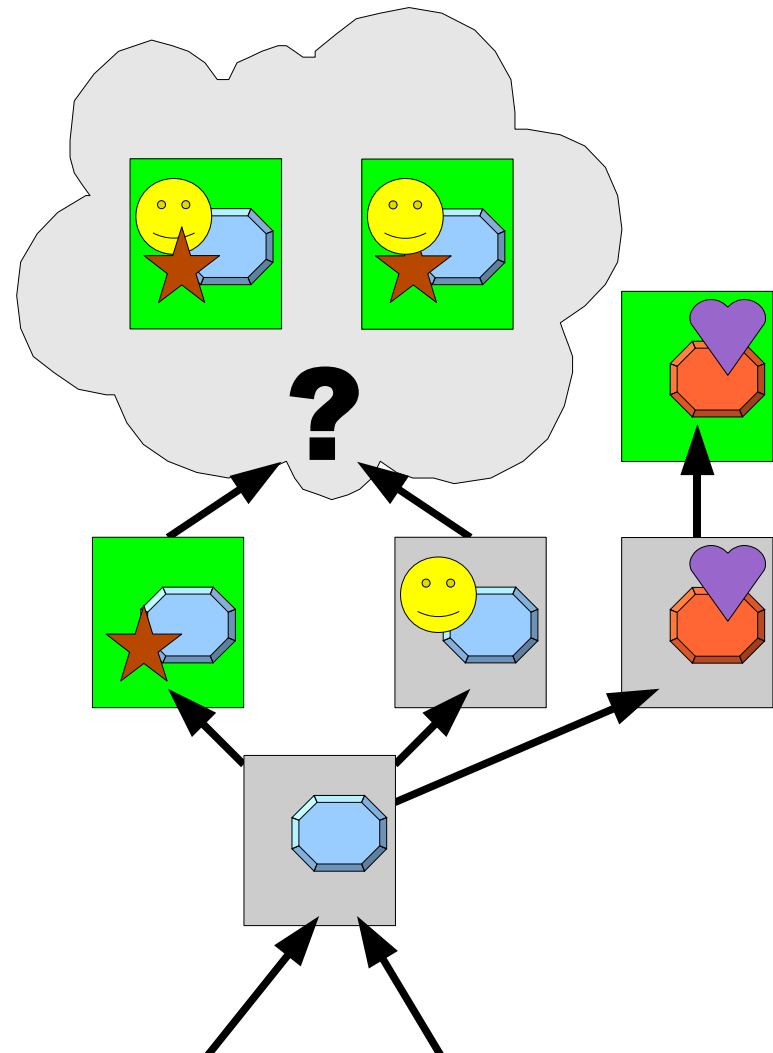
Merging (統合)

- What is a Merge?
 - Given two (or more) different project states, come up with a project state that is more desirable than all of them.
- Consolidate work
 - on different branches
 - often from different people



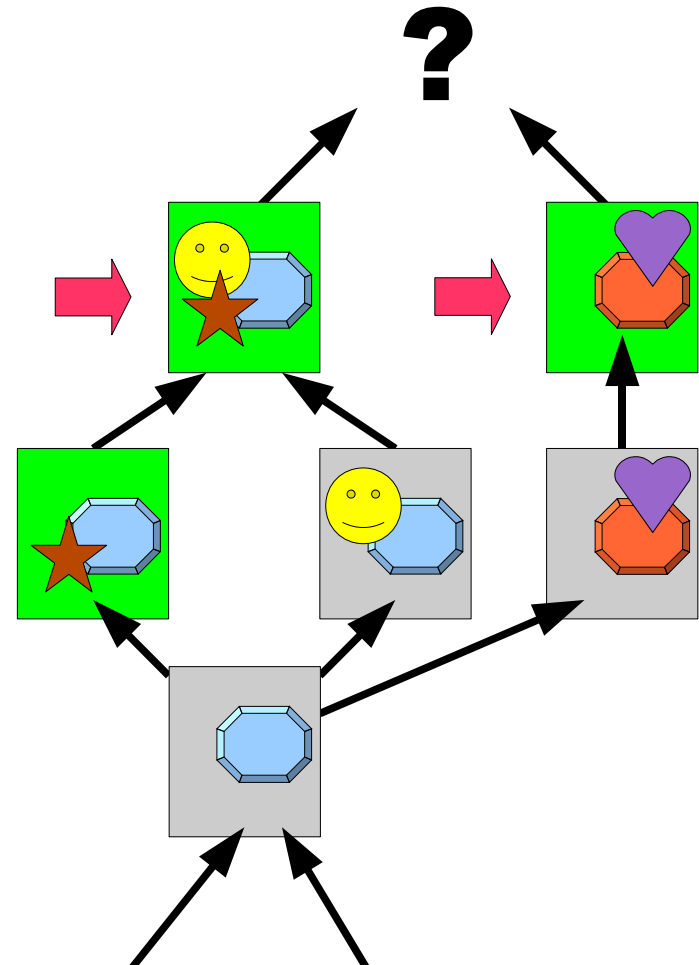
Merging (cont'd)

- Conflicts (競合)
- There is no single “correct” merge.
- Not all merges can be automated.



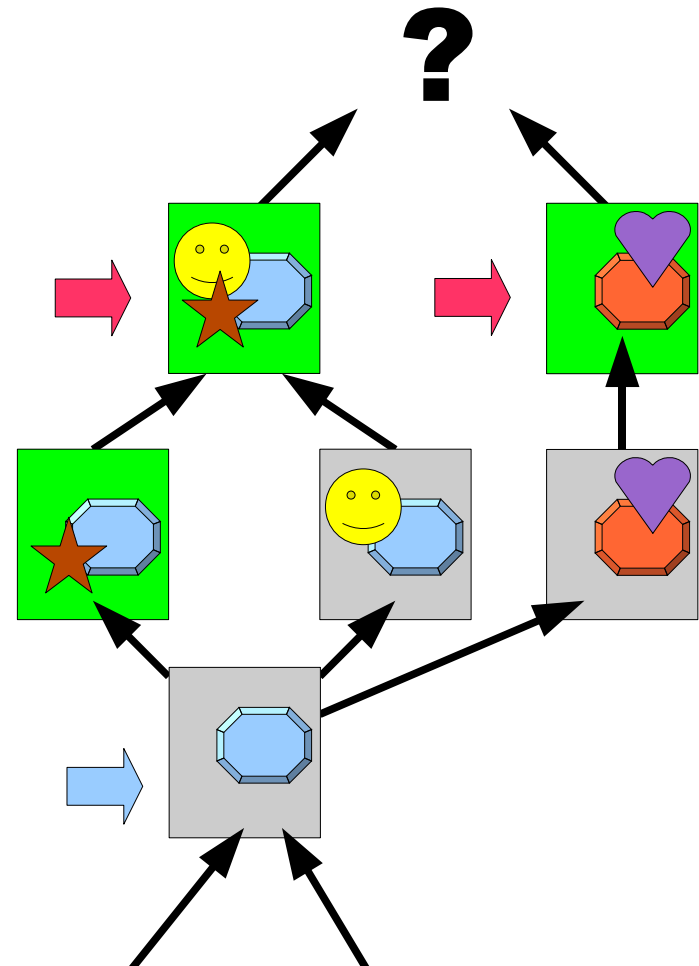
Merging (cont'd)

- git uses the 3-way merge algorithm.



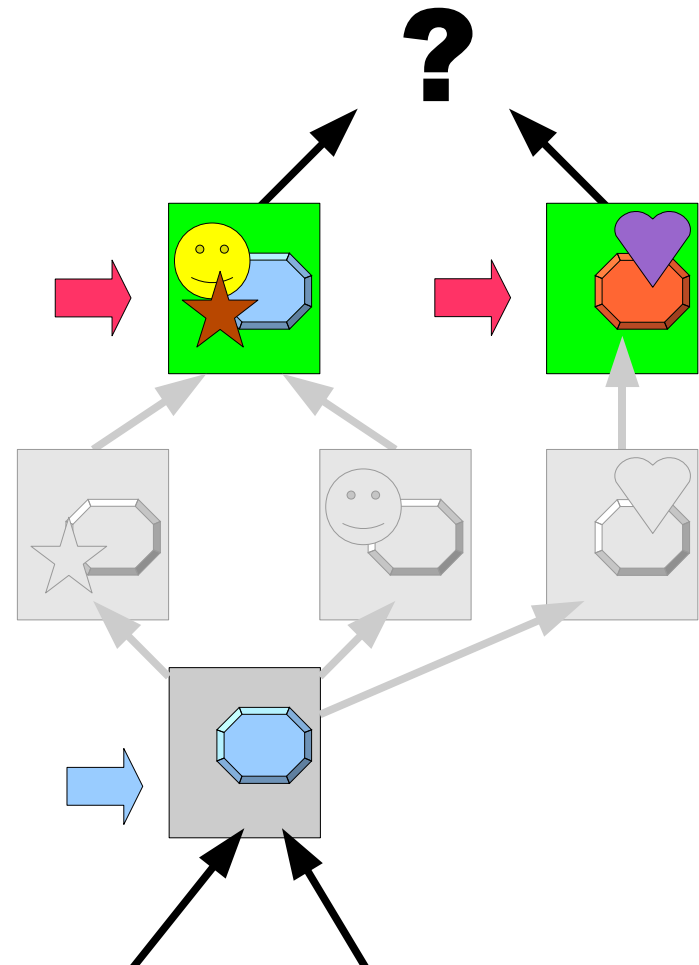
Merging (cont'd)

- git uses the 3-way merge algorithm.
- find a common ancestor



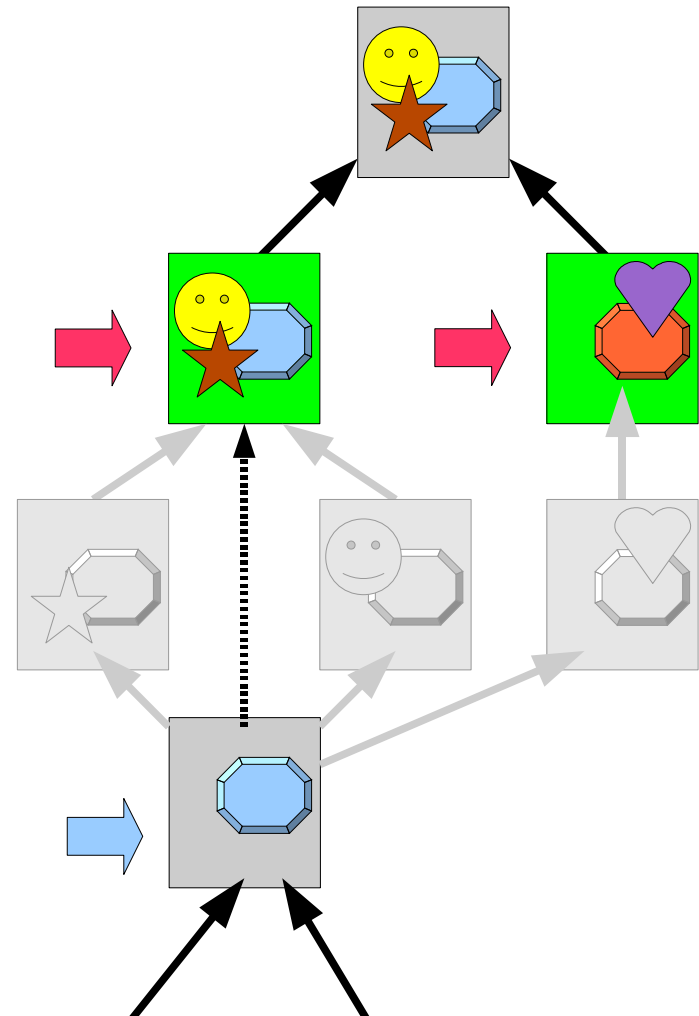
Merging (cont'd)

- git uses the 3-way merge algorithm.
- find a common ancestor
- come up with the result, while looking at only 3 states:



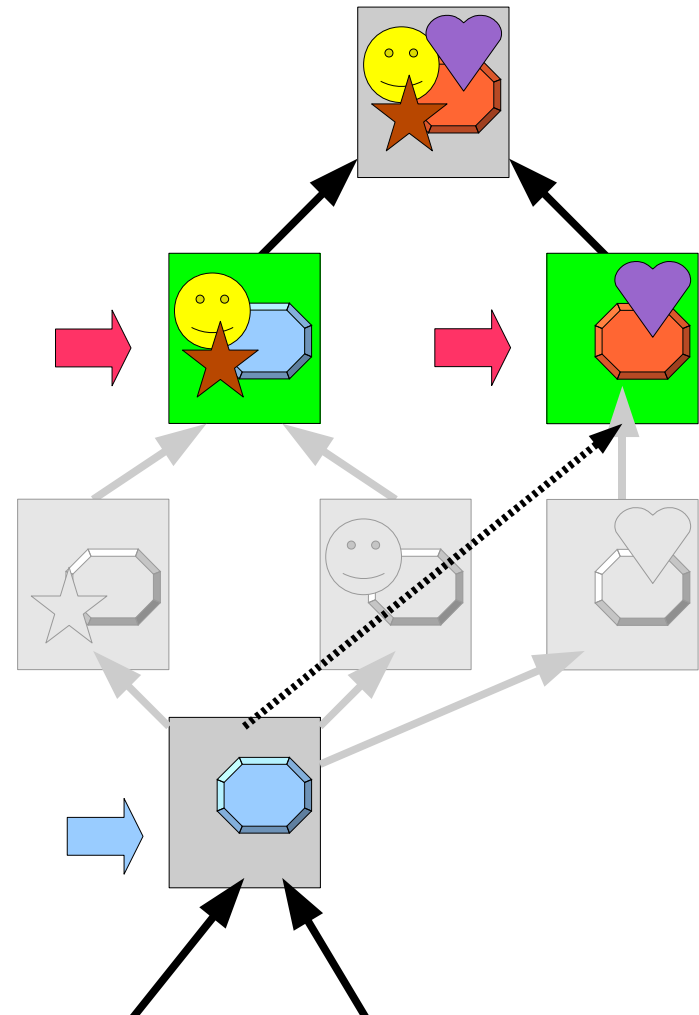
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- come up with the result, while looking at only 3 states:
 - if only one-side changes, take that change.



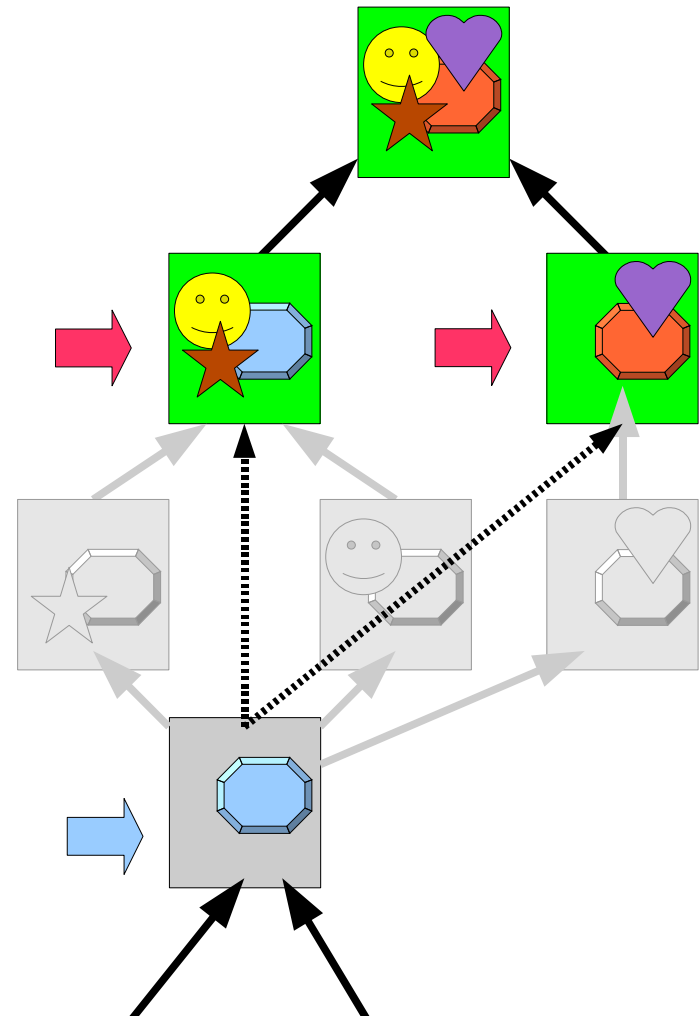
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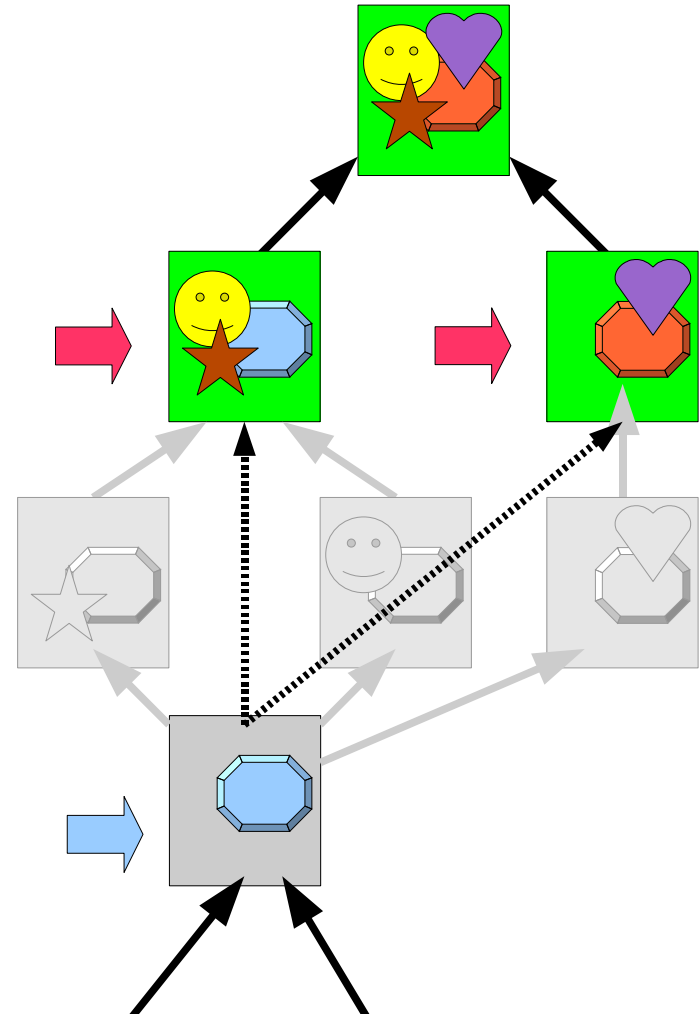
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- git uses the 3-way merge algorithm.
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 - if both sides change to the same result, use it.



Merging (cont'd)

- git uses the 3-way merge algorithm.
- find a common ancestor
- come up with the result, while looking at only 3 states:
 - if only one-side changes, take that change.
 - if both sides change to the same result, use it.
 - otherwise it is a conflict.



Archaeology (考古学)

- In a large project, no single person knows everything.
 - Visualization (可視化)
 - gitk, gitview
 - gitweb
 - tig
 - Bisection (二分探索)



History Visualization (履歴の可視化)

The screenshot shows the gitk application window. The top part displays a commit history graph with colored lines and nodes. The middle part is a table of commit details:

| Commit Message | Author | Date |
|--|------------------------------------|---------------------|
| Adjust core-git documentation to more recent Li | Junio C Hamano <junkio@cox.net> | 2005-05-05 23:49:58 |
| Reference documentation for the core git comm | David Greaves <david@dgreaves.cor | 2005-05-05 23:48:52 |
| Merge of http://members.cox.net/junkio/git-jc.git | Linus Torvalds <torvalds@ppc970.os | 2005-05-05 18:30:18 |
| Octopus merge of the following five patc | Junio C Hamano <junkio@cox.net> | 2005-05-05 16:16:54 |
| Update diff engine for symlinks stored | Junio C Hamano <junkio@cox.net> | 2005-05-05 16:10:21 |
| diff-cache shows differences for unme | Junio C Hamano <junkio@cox.net> | 2005-05-05 15:35:49 |
| Do not write out new index if nothing | Junio C Hamano <junkio@cox.net> | 2005-05-05 15:29:06 |
| Make git-prune-script executable again. | Junio C Hamano <junkio@cox.net> | 2005-05-05 15:10:49 |
| Update git-apply-patch-script for symbolic l | Junio C Hamano <junkio@cox.net> | 2005-05-05 16:14:01 |
| [PATCH] create subdirs for symlinks | Kay Sievers <kay.sievers@vrfy.org> | 2005-05-05 16:34:10 |
| Be more careful about tree entry modes. | Linus Torvalds <torvalds@ppc970.os | 2005-05-05 16:18:48 |
| Fix git-resolve-script. | Linus Torvalds <torvalds@ppc970.os | 2005-05-05 16:07:56 |
| Fix symlink handling | Linus Torvalds <torvalds@ppc970.os | 2005-05-05 16:01:46 |
| [PATCH] git: Mention the '-p' option in the usage | Thomas Glanzmann <sithglan@stud.u | 2005-05-05 12:51:34 |
| Split "git-pull-script" into two parts | Linus Torvalds <torvalds@ppc970.os | 2005-05-05 11:43:30 |
| git-diff-cache: add "-m" flag to match all non-che | Linus Torvalds <torvalds@ppc970.os | 2005-05-05 09:31:09 |

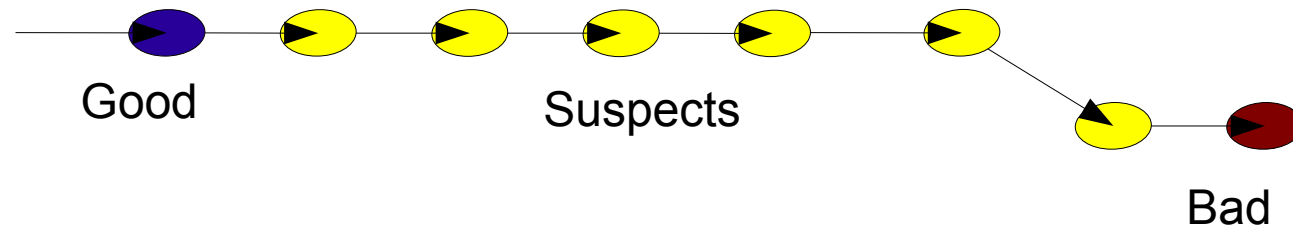
The bottom part shows a diff view for the selected commit (SHA1 ID: c64b9b88605f9d6824bf953a84d993c4a70fd759). The diff content is:

```
Reference documentation for the core git commands.

Signed-off-by: David Greaves <david@dgreaves.com>
Signed-off-by: Junio C Hamano <junkio@cox.net>

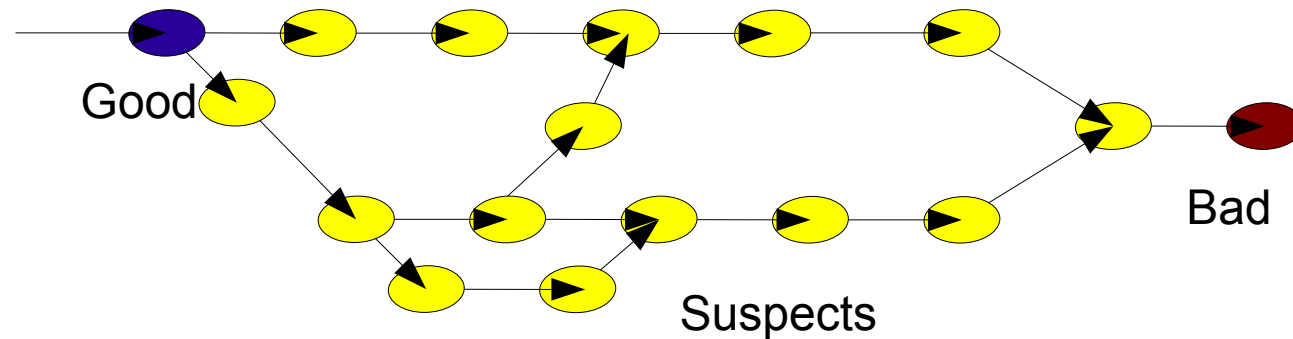
----- Documentation/core-git.txt -----
new file mode 100644
index 0000000..9b84a5e
@@ -0,0 +1,1128 @@
+This file contains reference information for the core git
+It is actually based on the source from Petr Baudis' tree
+therefore contain a few 'extras' that may or may not make
+
+The README contains much useful definition and clarificat
+read that first. And of the commands, I suggest reading
+'update-cache' and 'read-tree' first - I wish I had!
+
```

Bisection (二分探索)



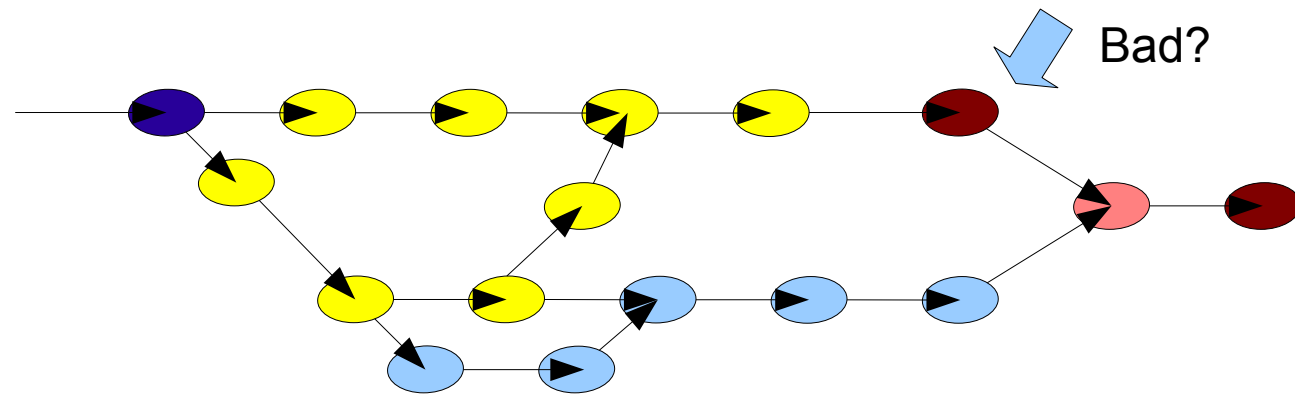
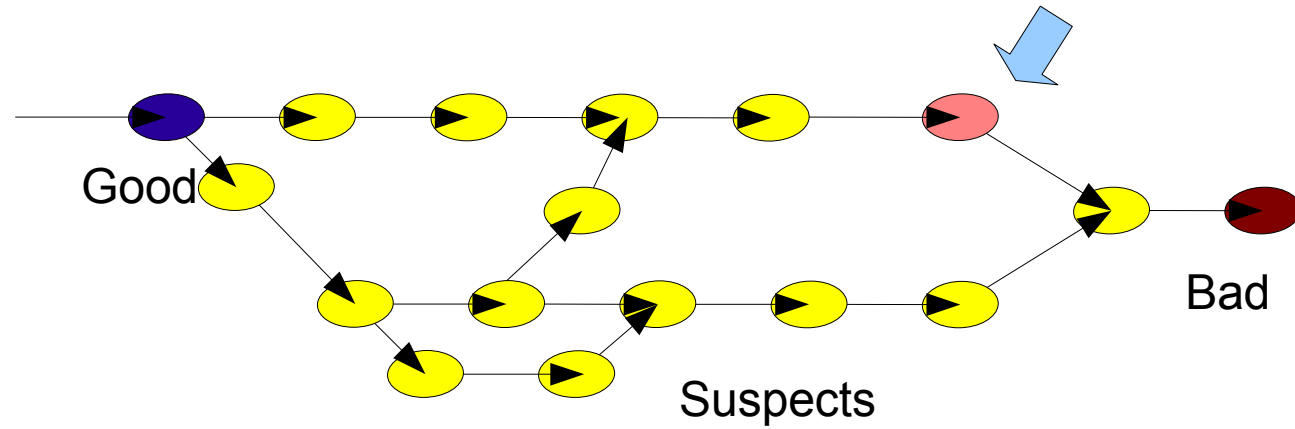
- “It used to work but now it doesn't!”
- There is a bug somewhere “between these two revisions”, but where? (どこでこわしたの?)

Bisection (二分探索)

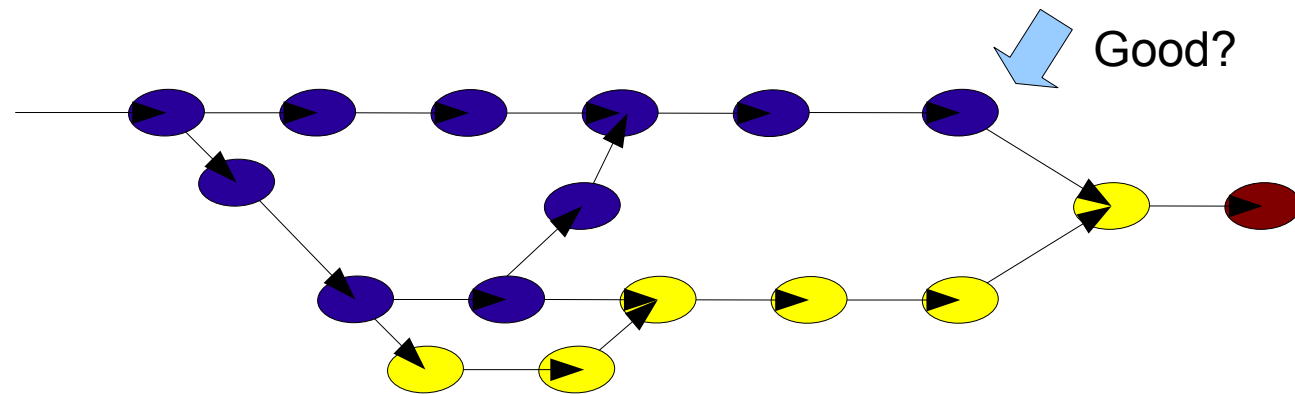
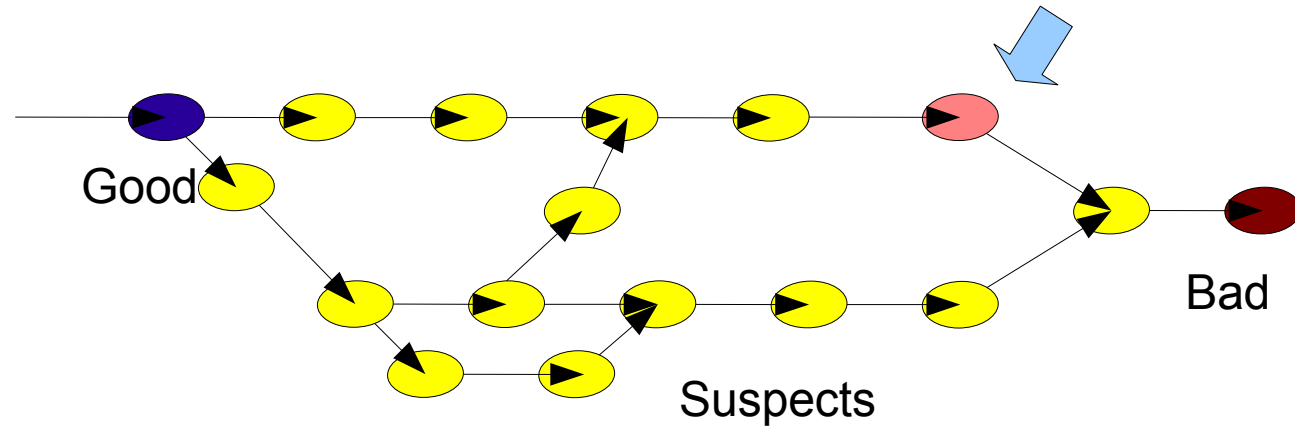


- “It used to work but now it doesn't!”
- There is a bug somewhere “between these two revisions”, but where? (どこでこわしたの?)
- Non-linear nature of the history makes things a bit complex.

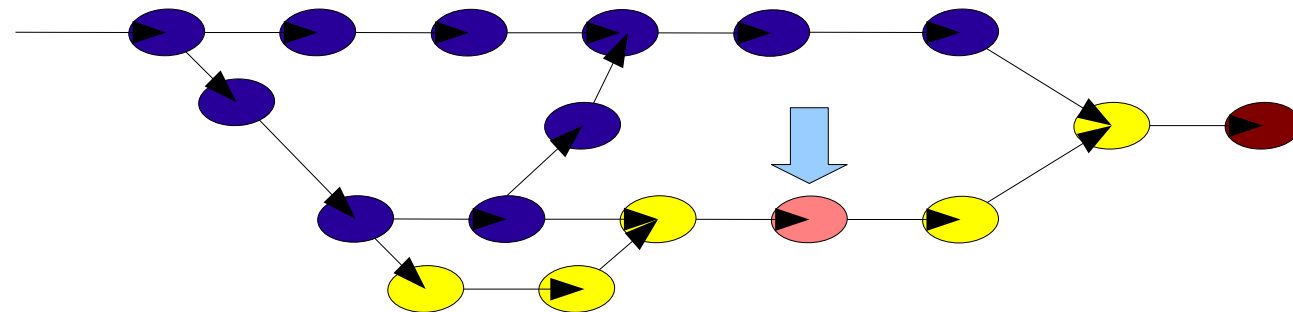
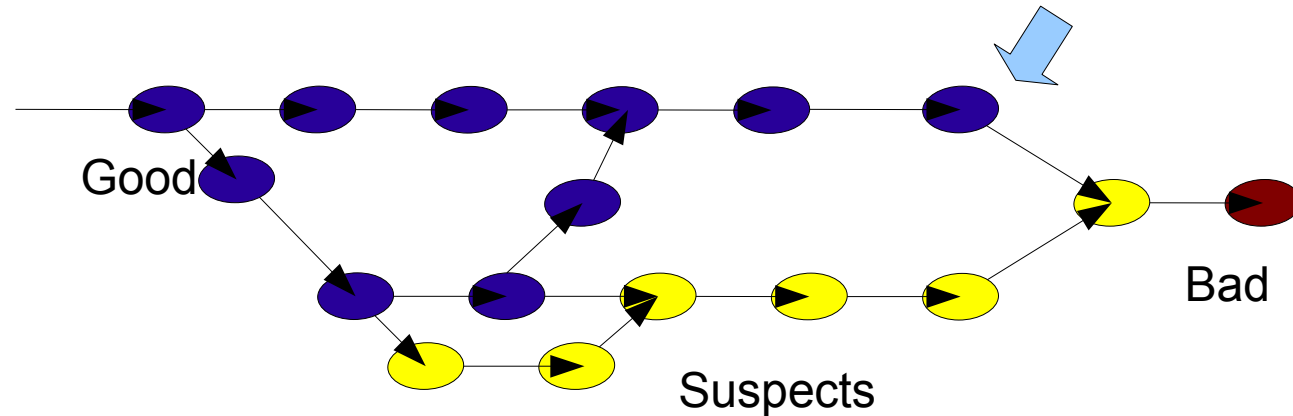
Bisection (cont'd)



Bisection (cont'd)



Bisection (cont'd)



- Recursively narrow down the suspects, until the guilty change is found.

Demonstration

- Cloning the kernel repository.
- Digging around.
- Making changes on a topic branch.
- Committing.
- Formatting patch for submission.
- Applying an e-mailed patch.
- Pulling and merging upstream changes.

```

: nnisry; ls -l my-2.6
ls: my-2.6: No such file or directory
: nnisry; git clone git://git.kernel.org/pub/scm/linux/kernel/git/torvalds/linux-2.6.git/ my-2.6
Checking files out.../s)
 100% (19549/19549) done
: nnisry; cd my-2.6
: nnisry; ls
./          CREDITS          .git/          Kbuild          mm/             security/
../         crypto/           .gitignore     kernel/          net/            sound/
arch/       Documentation/   include/        lib/             README          usr/
block/      drivers/         init/           MAINTAINERS     REPORTING-BUGS
COPYING     fs/              ipc/            Makefile         scripts/
: nnisry; gitk
: nnisry; git checkout -b via8236 master
: nnisry; git show-branch
! [master] fix non-leader exec under ptrace
! [origin] fix non-leader exec under ptrace
* [via8236] fix non-leader exec under ptrace
---
++* [master] fix non-leader exec under ptrace
: nnisry;

```

Clone

| | | | |
|-------------------|---|---|---------------------|
| ● master — origin | [PATCH] fix non-leader exec unde | Roland McGrath <roland@redhat.com> | 2006-04-12 16:30:20 |
| ● | [PATCH] de_thread: Don't change our parents and ptr | Eric W. Biederman <ebiederm@xmission. | 2006-04-14 03:05:55 |
| ● | Merge branch 'release' of git://git.kernel.org/pub/scm/li | Linus Torvalds <torvalds@g5.osdl.org> | 2006-04-13 20:30:58 |
| ● | [IA64] Make show_mem() skip holes in a pgdat | Robin Holt <holt@sgi.com> | 2006-04-13 15:34:45 |
| ● | [IA64] ia64_wait_for_slaves() incorrectly reports MC | Keith Owens <kaos@sgi.com> | 2006-04-10 21:59:41 |
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| ● | IB/cache: Use correct pointer to calculate size | Michael S. Tsirkin <mst@mellanox.co.il> | 2006-04-10 13:17:43 |
| ● | IPoIB: Use spin_lock_irq() instead of spin_lock_irqs | Roland Dreier <rolandd@cisco.com> | 2006-04-10 09:43:59 |
| ● | IPoIB: Close race in ipoib flush paths() | Eli Cohen <eli@mellanox.co.il> | 2006-04-05 05:59:34 |

SHA1 ID: e57a5059846e55d82b86d96dde40e988598601b3 Find All fields

Author: Roland McGrath <roland@redhat.com> 2006-04-12 16:30:20
 Committer: Linus Torvalds <torvalds@g5.osdl.org> 2006-04-14 08:5
 Parent: [c06511d12d720b23c8dffff23004f0a888698f20](#) (...)

[PATCH] fix non-leader exec under ptrace

This reverts most of commit 30e0fca6c1d7d26f3f2daa4dd2b12c51d
 It broke the case of non-leader MT exec when ptraced.
 I think the bug it was intended to fix was already addressed
 788e05a67c343fa22f2aeld3ca264e7f15c25eaf.

Signed-off-by: Roland McGrath <roland@redhat.com>
 Acked-by: Oleg Nesterov <oleg@tv-sign.ru>
 Signed-off-by: Linus Torvalds <torvalds@osdl.org>

```
----- kernel/ptrace.c -----
index 0eeb7e6..4e0f0ec 100644
@@ -56,10 +56,6 @@ void ptrace_untrace(task_t *child)
        signal_wake_up(child, 1);
    }
-    if (child->signal->flags & SIGNAL_GROUP_EXIT) {
```

◆ Patch ◆ Tree

Comments
 kernel/ptrace.c
 kernel/signal.c

| | | |
|---|---|---------------------|
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SHA1 ID:

Author: Eric W. Biederman <ebiederm@xmission.com> 2006-04-14 03:
 Committer: Linus Torvalds <torvalds@g5.osdl.org> 2006-04-14 08:4
 Parent: [0e5e24bf64b755a034d8294303bc61d8f40ebeaf](#) (Merge branch 'r
 Child: [e57a5059846e55d82b86d96dde40e988598601b3](#) ([PATCH] fix non

[PATCH] de_thread: Don't change our parents and ptrace flags.

This is two distinct changes.

- Not changing our real parents.
- Not changing our ptrace parents.

Not changing our real parents is trivially correct because bo
 have the same real parents as they are part of a thread group
 we demote the leader to a thread there is no longer any reaso
 it's parentage.

Not changing our ptrace parents is a user visible change if s
 looks hard enough. I don't think user space applications wil
 even notice.

In the practical and I think common case a debugger will have
 to all of the threads using the same ptrace flags. From my q
 of strace and gdb that appears to be the case. Which if true

◆ Patch ▼ Tree

Comments
 fs/exec.c

gitk

File Edit View Help

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SHA1 ID: 0e5e24bf64b755a034d8294303bc61d8f40ebeaf Find All fields

Author: Linus Torvalds <torvalds@g5.osdl.org> 2006-04-13 20:30:5
 Committer: Linus Torvalds <torvalds@g5.osdl.org> 2006-04-13 20:3
 Parent: [20ac94378de59d61dc39f10ed5530485e4ac8c07](#) ([PATCH] do_SAK:
 Parent: [ace1d816a13ff42d4f41989862552032f9c19853](#) ([IA64] Make sho
 Child: [c06511d12d720b23c8dffff23004f0a888698f20](#) ([PATCH] de_thre

Merge branch 'release' of git://git.kernel.org/pub/scm/linux/
 * 'release' of git://git.kernel.org/pub/scm/linux/kernel/git/
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| ● [PATCH] de_thread: Don't change our parents and ptr | Eric W. Biederman <ebiederm@xmission. | 2006-04-14 03:05:55 |
| ● Merge branch 'release' of git://git.kernel.org/pub/scm/li | Linus Torvalds <torvalds@g5.osdl.org> | 2006-04-13 20:30:58 |
| ● [IA64] Make show_mem() skip holes in a pgdat | Robin Holt <holt@sgi.com> | 2006-04-13 15:34:45 |
| ● [IA64] ia64_wait_for_slaves() incorrectly reports MC | Keith Owens <kaos@sgi.com> | 2006-04-10 21:59:41 |
| ● [PATCH] do_SAK: Don't recursively take the tasklis | Eric W. Biederman <ebiederm@xmission. | 2006-04-13 03:49:07 |
| ● Merge branch 'for-linus' of master.kernel.org:/pub/sc | Linus Torvalds <torvalds@g5.osdl.org> | 2006-04-12 16:07:54 |
| ● IB/mthca: Fix max_srq_sge returned by ib_query_d | Jack Morgenstein <jackm@mellanox.co.il> | 2006-04-11 08:16:27 |
| ● IB/cache: Use correct pointer to calculate size | Michael S. Tsirkin <mst@mellanox.co.il> | 2006-04-10 13:17:43 |
| ● IPoIB: Use spin_lock_irq() instead of spin_lock_irqs | Roland Dreier <rolandd@cisco.com> | 2006-04-10 09:43:59 |
| ● IPoIB: Close race in ipoib flush paths() | Eli Cohen <eli@mellanox.co.il> | 2006-04-05 05:59:34 |

SHA1 ID:

Author: Robin Holt <holt@sgi.com> 2006-04-13 15:34:45
 Committer: Tony Luck <tony.luck@intel.com> 2006-04-13 15:34:45
 Parent: [356a5c1c6fd8eed6dbb3979d90c7cc7060017a](#) ([IA64] ia64_wai
 Child: [0e5e24bf64b755a034d8294303bc61d8f40ebeam](#) (Merge branch 'r

[IA64] Make show_mem() skip holes in a pgdat

This patch modifies ia64's show_mem() to walk the vmem_map pa
 rapidly skip forward across regions where the page tables are
 This prevents the pfn_valid() check from causing numerous unn
 page faults.

Without this patch on a 512 node 512 cpu system where every n
 memory holes, the show_mem() call takes 1 hour 18 minutes. W
 patch, it takes less than 3 seconds.

Signed-off-by: Robin Holt <holt@sgi.com>
 Signed-off-by: Tony Luck <tony.luck@intel.com>

```
----- arch/ia64/mm/discontig.c -----
index ec9eeb8..b6bcc9f 100644
@@ -519,6 +519,68 @@ void __cpuinit *per_cpu_init(void)
```

Comments
 arch/ia64/mm/discontig.c

| | | |
|---|---|---------------------|
| ● master — origin [PATCH] fix non-leader exec unde | Roland McGrath <roland@redhat.com> | 2006-04-12 16:30:20 |
| ● [PATCH] de_thread: Don't change our parents and ptr | Eric W. Biederman <ebiederm@xmission. | 2006-04-14 03:05:55 |
| ● Merge branch 'release' of git://git.kernel.org/pub/scm/li | Linus Torvalds <torvalds@g5.osdl.org> | 2006-04-13 20:30:58 |
| ● [IA64] Make show_mem() skip holes in a pgdat | Robin Holt <holt@sgi.com> | 2006-04-13 15:34:45 |
| ● [IA64] ia64_wait_for_slaves() incorrectly reports MC | Keith Owens <kaos@sgi.com> | 2006-04-10 21:59:41 |
| ● [PATCH] do_SAK: Don't recursively take the tasklis | Eric W. Biederman <ebiederm@xmission. | 2006-04-13 03:49:07 |
| ● Merge branch 'for-linus' of master.kernel.org:/pub/sc | Linus Torvalds <torvalds@g5.osdl.org> | 2006-04-12 16:07:54 |
| ● IB/mthca: Fix max_srq_sge returned by ib_query_d | Jack Morgenstein <jackm@mellanox.co.il> | 2006-04-11 08:16:27 |
| ● IB/cache: Use correct pointer to calculate size | Michael S. Tsirkin <mst@mellanox.co.il> | 2006-04-10 13:17:43 |
| ● IPoIB: Use spin_lock_irq() instead of spin_lock_irqs | Roland Dreier <rolandd@cisco.com> | 2006-04-10 09:43:59 |
| ● IPoIB: Close race in ipoib flush paths() | Eli Cohen <eli@mellanox.co.il> | 2006-04-05 05:59:34 |

SHA1 ID: 356a5c1c6fd8eed6dbb3979d90c7cc7060017a ← → Find All fields

Author: Keith Owens <kaos@sgi.com> 2006-04-10 21:59:41
 Committer: Tony Luck <tony.luck@intel.com> 2006-04-13 14:57:18
 Parent: [907d91d708d9999bec0185d630062576ac4181a7](#) (Merge branch 'f
 Child: [ace1d816a13ff42d4f41989862552032f9c19853](#) ([IA64] Make sho

```
[IA64] ia64_wait_for_slaves() incorrectly reports MCA

ia64_wait_for_slaves() was changed in 2.6.17-rc1 to report th
state. It incorrectly assumes that all slaves are for MCA, b
ia64_wait_for_slaves() is also called from the INIT monarch h
The existing message is very misleading, so correct it.

Signed-off-by: Keith Owens <kaos@sgi.com>
Signed-off-by: Tony Luck <tony.luck@intel.com>
```

```
----- arch/ia64/kernel/mca.c -----
index 5e6fdbe..6a08806 100644
@@ -963,7 +963,7 @@ no_mod:
 */

static void
-ia64_wait_for_slaves(int monarch)
```

◆ Patch ◆ Tree

Comments
 arch/ia64/kernel/mca.c

| | | | |
|-------------------|---|---|---------------------|
| ● master — origin | [PATCH] fix non-leader exec unde | Roland McGrath <roland@redhat.com> | 2006-04-12 16:30:20 |
| ● | [PATCH] de_thread: Don't change our parents and ptr | Eric W. Biederman <ebiederm@xmission. | 2006-04-14 03:05:55 |
| ● | Merge branch 'release' of git://git.kernel.org/pub/scm/li | Linus Torvalds <torvalds@g5.osdl.org> | 2006-04-13 20:30:58 |
| ● | [IA64] Make show_mem() skip holes in a pgdat | Robin Holt <holt@sgi.com> | 2006-04-13 15:34:45 |
| ● | [IA64] ia64_wait_for_slaves() incorrectly reports MC | Keith Owens <kaos@sgi.com> | 2006-04-10 21:59:41 |
| ● | [PATCH] do_SAK: Don't recursively take the tasklis | Eric W. Biederman <ebiederm@xmission. | 2006-04-13 03:49:07 |
| ● | Merge branch 'for-linus' of master.kernel.org:/pub/sc | Linus Torvalds <torvalds@g5.osdl.org> | 2006-04-12 16:07:54 |
| ● | IB/mthca: Fix max_srq_sge returned by ib_query_d | Jack Morgenstein <jackm@mellanox.co.il> | 2006-04-11 08:16:27 |
| ● | IB/cache: Use correct pointer to calculate size | Michael S. Tsirkin <mst@mellanox.co.il> | 2006-04-10 13:17:43 |
| ● | IPoIB: Use spin_lock_irq() instead of spin_lock_irqs | Roland Dreier <rolandd@cisco.com> | 2006-04-10 09:43:59 |
| ● | IPoIB: Close race in ipoib flush paths() | Eli Cohen <eli@mellanox.co.il> | 2006-04-05 05:59:34 |

SHA1 ID: 20ac94378de59d61dc39f10ed5530485e4ac8c07 ← → Find All fields

Author: Eric W. Biederman <ebiederm@xmission.com> 2006-04-13 03:
 Committer: Linus Torvalds <torvalds@g5.osdl.org> 2006-04-13 11:5
 Parent: [907d91d708d9999bec0185d630062576ac4181a7](#) (Merge branch 'f
 Child: [0e5e24bf64b755a034d8294303bc61d8f40ebeam](#) (Merge branch 'r

◆ Patch ◆ Tree

Comments
 drivers/char/tty_io.c

```
[PATCH] do_SAK: Don't recursively take the tasklist_lock

By calling send_sig do_SAK is recursively taking the
tasklist_lock, which is silly.

In addition I just audited the kernel and this was the only
place where tasklist_lock is taken inside of task_lock.

So this one line change is a general worthwhile cleanup and
it increases our options on how to fix the ptrace_attach race

Signed-off-by: Linus Torvalds <torvalds@osdl.org>
```

```
----- drivers/char/tty_io.c -----
index f70a47e..841f0bd 100644
@@ -2734,7 +2734,7 @@ #else
                                printk(KERN_NOTICE "SAK:
```

| | | |
|---|---|---------------------|
| ● master — origin [PATCH] fix non-leader exec unde | Roland McGrath <roland@redhat.com> | 2006-04-12 16:30:20 |
| ● [PATCH] de_thread: Don't change our parents and ptr | Eric W. Biederman <ebiederm@xmission. | 2006-04-14 03:05:55 |
| ● Merge branch 'release' of git://git.kernel.org/pub/scm/li | Linus Torvalds <torvalds@g5.osdl.org> | 2006-04-13 20:30:58 |
| ● [IA64] Make show_mem() skip holes in a pgdat | Robin Holt <holt@sgi.com> | 2006-04-13 15:34:45 |
| ● [IA64] ia64_wait_for_slaves() incorrectly reports MC | Keith Owens <kaos@sgi.com> | 2006-04-10 21:59:41 |
| ● [PATCH] do_SAK: Don't recursively take the tasklis | Eric W. Biederman <ebiederm@xmission. | 2006-04-13 03:49:07 |
| ● Merge branch 'for-linus' of master.kernel.org:/pub/sc | Linus Torvalds <torvalds@g5.osdl.org> | 2006-04-12 16:07:54 |
| ● IB/mthca: Fix max_srq_sge returned by ib_query_d | Jack Morgenstein <jackm@mellanox.co.il> | 2006-04-11 08:16:27 |
| ● IB/cache: Use correct pointer to calculate size | Michael S. Tsirkin <mst@mellanox.co.il> | 2006-04-10 13:17:43 |
| ● IPoIB: Use spin_lock_irq() instead of spin_lock_irqs | Roland Dreier <rolandd@cisco.com> | 2006-04-10 09:43:59 |
| ● IPoIB: Close race in ipoib_flush_paths() | Eli Cohen <eli@mellanox.co.il> | 2006-04-05 05:59:34 |

SHA1 ID:

Author: Linus Torvalds <torvalds@g5.osdl.org> 2006-04-12 16:07:54
 Committer: Linus Torvalds <torvalds@g5.osdl.org> 2006-04-12 16:07:54
 Parent: [646e120ffe885d70c75460f515d56a5c0d72002e](#) (...)
 Parent: [59fef3ble96217c6e736372ff8cc95cbcca1b6aa](#) (IB/mthca: Fix m
 Child: [356a5c1c6fdfb8eed6dbb3979d90c7cc7060017a](#) ([IA64] ia64_wai
 Child: [20ac94378de59d61dc39f10ed5530485e4ac8c07](#) ([PATCH] do_SAK:

```

Merge branch 'for-linus' of master.kernel.org:/pub/scm/linux/

* 'for-linus' of master.kernel.org:/pub/scm/linux/kernel/git/
IB/mthca: Fix max_srq_sge returned by ib_query_device for T
IB/cache: Use correct pointer to calculate size
IPoIB: Use spin_lock_irq() instead of spin_lock_irqsave()
IPoIB: Close race in ipoib_flush_paths()
IB/mthca: Disable tuning PCI read burst size
IPoIB: Make send and receive queue sizes tunable
IPoIB: Wait for join to finish before freeing mcast struct
IB: simplify static rate encoding
IPoIB: Consolidate private neighbour data handling
IB/srp: Fix memory leak in options parsing
IB/mthca: Always build debugging code unless CONFIG_EMBEDDE
IPoIB: Always build debugging code unless CONFIG_EMBEDDED=y
IB/mad: fix oops in cancel_mads
  
```

◆ Patch ▼ Tree

Comments

gitk

File Edit View Help

- IB: simplify static rate encoding
- IPoIB: Consolidate private neighbour data handling
- IB/srp: Fix memory leak in options parsing
- IB/mthca: Always build debugging code unless CONF
- IPoIB: Always build debugging code unless CONF
- IB/mad: fix oops in cancel_mads
- Merge branch 'upstream-linus' of master.kernel.org:/
- [PATCH] sata_mv: properly print HC registers
- Merge branch 'upstream-linus' of master.kernel.or
- [PATCH] Use pci_set_consistent_dma_mask ir
- [PATCH] skv2: bad memory reference on dual

| | |
|---|---------------------|
| Jack Morgenstein <jackm@mellanox.co.il> | 2006-04-10 09:43:47 |
| Michael S. Tsirkin <mst@mellanox.co.il> | 2006-04-04 09:59:40 |
| Roland Dreier <rolandd@cisco.com> | 2006-04-03 09:31:04 |
| Roland Dreier <rolandd@cisco.com> | 2006-04-02 14:39:20 |
| Roland Dreier <rolandd@cisco.com> | 2006-04-02 14:39:19 |
| Michael S. Tsirkin <mst@mellanox.co.il> | 2006-03-30 05:52:54 |
| Linus Torvalds <torvalds@g5.osdl.org> | 2006-04-12 15:25:12 |
| Dan Aloni <da-x@monatomic.org> | 2006-04-10 23:20:22 |
| Linus Torvalds <torvalds@g5.osdl.org> | 2006-04-12 15:24:06 |
| Andreas Schwab <schwab@suse.de> | 2006-03-28 08:10:38 |
| Stephen Hemminger <shemminger@osdl> | 2006-04-05 17:47:15 |

SHA1 ID: d220c37e0a3c9a47ae00e87e044d963b3ea040bc Find All fields

Author: Dan Aloni <da-x@monatomic.org> 2006-04-10 23:20:22
 Committer: Jeff Garzik <jeff@garzik.org> 2006-04-12 15:05:56
 Parent: [a145410dccdb44f81d3b56763ef9b6f721f4e47c](#) (...)
 Child: [646e120ffe885d70c75460f515d56a5c0d72002e](#) (Merge branch 'u

[PATCH] sata_mv: properly print HC registers

Currently it crashes when trying to dump the registers. This one-liner fix I suppose.

Signed-off-by: Dan Aloni <da-x@monatomic.org>
 Signed-off-by: Andrew Morton <akpm@osdl.org>
 Signed-off-by: Jeff Garzik <jeff@garzik.org>

----- drivers/scsi/sata_mv.c -----
index b64b077..d5fdcb9 100644
 @@ -747,7 +747,7 @@ #ifdef ATA_DEBUG
 mv_dump_mem(mmio_base+0xf00, 0x4);
 mv_dump_mem(mmio_base+0x1d00, 0x6c);
 for (hc = start_hc; hc < start_hc + num_hcs; hc++) {
 - hc_base = mv_hc_base(mmio_base, port >> MV_PORT_H
 + hc_base = mv_hc_base(mmio_base, hc);

Patch Tree

Comments
 drivers/scsi/sata_mv.c

```

: nnisry; vi +591 arch/i386/pci/irq.c
: nnisry; vi +1272 include/linux/pci_ids.h
: nnisry; git diff
diff --git a/arch/i386/pci/irq.c b/arch/i386/pci/irq.c
index 3ca59ca..5d8c135 100644
--- a/arch/i386/pci/irq.c
+++ b/arch/i386/pci/irq.c
@@ -589,6 +589,7 @@ static __init int via_router_probe(struct
     case PCI_DEVICE_ID_VIA_82C686:
     case PCI_DEVICE_ID_VIA_8231:
     case PCI_DEVICE_ID_VIA_8235:
+    case PCI_DEVICE_ID_VIA_8236:
         /* FIXME: add new ones for 8233/5 */
         r->name = "VIA";
         r->get = pirq_via_get;
diff --git a/include/linux/pci_ids.h b/include/linux/pci_ids.h
index 870fe38..047598c 100644
--- a/include/linux/pci_ids.h
+++ b/include/linux/pci_ids.h
@@ -1270,6 +1270,7 @@ #define PCI_DEVICE_ID_VIA_XN266           0x3156
#define PCI_DEVICE_ID_VIA_6410           0x3164
#define PCI_DEVICE_ID_VIA_8754C_0        0x3168
#define PCI_DEVICE_ID_VIA_8235           0x3177
+#define PCI_DEVICE_ID_VIA_8236           0x3178
#define PCI_DEVICE_ID_VIA_8385_0         0x3188
#define PCI_DEVICE_ID_VIA_8377_0         0x3189
#define PCI_DEVICE_ID_VIA_8378_0         0x3205
: nnisry; git commit -a -v -s

```

Edit

[i386] pci/irq: add VIA 8236

Fictional VIA 8236 is the same as 8235 but with a different ID.

Signed-off-by: Junio C Hamano <junio@twinsun.com>

```
# Please enter the commit message for your changes.
# (Comment lines starting with '#' will not be included)
# On branch refs/heads/via8236
#
# Updated but not checked in:
#   (will commit)
#
#       modified: arch/i386/pci/irq.c
#       modified: include/linux/pci_ids.h
#
diff --git a/arch/i386/pci/irq.c b/arch/i386/pci/irq.c
index 3ca59ca..5d8c135 100644
--- a/arch/i386/pci/irq.c
+++ b/arch/i386/pci/irq.c
@@ -589,6 +589,7 @@ static __init int via_router_probe(struc
...
```

Commit

```
: nnisry; git show
commit 774756075cd17b9bb010025673a2e637fdfffcf2
Author: Junio C Hamano <junio@twinsun.com>
Date:   Mon May 29 12:27:03 2006 -0700
```

```
[i386] pci/irq: add VIA 8236
```

Fictional VIA 8236 is the same as 8235 but with a different ID.

Signed-off-by: Junio C Hamano <junio@twinsun.com>

```
diff --git a/arch/i386/pci/irq.c b/arch/i386/pci/irq.c
index 3ca59ca..5d8c135 100644
--- a/arch/i386/pci/irq.c
+++ b/arch/i386/pci/irq.c
@@ -589,6 +589,7 @@ static __init int via_router_probe(struct
     case PCI_DEVICE_ID_VIA_82C686:
     case PCI_DEVICE_ID_VIA_8231:
     case PCI_DEVICE_ID_VIA_8235:
+    case PCI_DEVICE_ID_VIA_8236:
         /* FIXME: add new ones for 8233/5 */
         r->name = "VIA";
         r->get = pirq_via_get;
diff --git a/include/linux/pci_ids.h b/include/linux/pci_ids.h
index 870fe38..047598c 100644
--- a/include/linux/pci_ids.h
+++ b/include/linux/pci_ids.h
...
: nnisry;
```

Show

```

: nnisry; git grep -n -e 'DEVICE_ID_VIA_823[56]' -- arch/i386 include/linux
arch/i386/pci/irq.c:572:                case PCI_DEVICE_ID_VIA_8235:
arch/i386/pci/irq.c:577:                device = PCI_DEVICE_ID_VIA_8235;
arch/i386/pci/irq.c:591:                case PCI_DEVICE_ID_VIA_8235:
arch/i386/pci/irq.c:592:                case PCI_DEVICE_ID_VIA_8236:
include/linux/pci_ids.h:1272:#define PCI_DEVICE_ID_VIA_8235                0x3177
include/linux/pci_ids.h:1273:#define PCI_DEVICE_ID_VIA_8236                0x3178
: nnisry; vi +572 arch/i386/pci/irq.c
: nnisry; git commit -a --amend
[i386] pci/irq: add VIA 8236

```

Fictional VIA 8236 is the same as 8235 but with a different ID.
While we are at it, simplify logic for `via_router_probe()`.

Signed-off-by: Junio C Hamano <junio@twinsun.com>

```

# On branch refs/heads/via8236
#
# Updated but not checked in:
#   (will commit)
#
#       modified: arch/i386/pci/irq.c
#       modified: include/linux/pci_ids.h
#

```

Grep & Amend

```
: nnisry; git show-branch
! [master] fix non-leader exec under ptrace
! [origin] fix non-leader exec under ptrace
* [via8236] [i386] pci/irq: add VIA 8236
---
* [via8236] [i386] pci/irq: add VIA 8236
++* [master] fix non-leader exec under ptrace
: nnisry; git format-patch master..
0001-i386-pci-irq-add-VIA-8236.txt
```

format-patch

: nnisry; **cat 0001-i386-pci-irq-add-VIA-8236.txt**

From 94a0a8e90d6a1875709be62b90da390524cad960 Mon Sep 17 00:00:00 2001

From: Junio C Hamano <junio@twinsun.com>

Date: Mon, 29 May 2006 12:27:03 -0700

Subject: [PATCH] [i386] pci/irq: add VIA 8236

Fictional VIA 8236 is the same as 8235 but with a different ID.
While we are at it, simplify logic for `via_router_probe()`.

Signed-off-by: Junio C Hamano <junio@twinsun.com>

```
arch/i386/pci/irq.c      |    11 +++++-----
include/linux/pci_ids.h |     1 +
2 files changed, 6 insertions(+), 6 deletions(-)
```

```
diff --git a/arch/i386/pci/irq.c b/arch/i386/pci/irq.c
```

```
index 3ca59ca..e60997e 100644
```

```
--- a/arch/i386/pci/irq.c
```

```
+++ b/arch/i386/pci/irq.c
```

```
@@ -563,18 +563,16 @@ static __init int via_router_probe(struct
     if (device == PCI_DEVICE_ID_VIA_82C586_0) {
         switch(router->device) {
             case PCI_DEVICE_ID_VIA_82C686:
+             case PCI_DEVICE_ID_VIA_8235:
+             case PCI_DEVICE_ID_VIA_8236:
                 /*
```

...

format-patch

```
: nnisry; cat ../material/patch01.diff
From 20ddf0f9be7552782e5d68978bd1faf11bb00bd1 Mon Sep 17 00:00:00 2001
From: A U Thor <author@example.com>
Date: Sun, 28 May 2006 15:36:23 -0700
Subject: [PATCH] dmi_scan.c: end comment sentence with a full stop
```

```
Signed-off-by: A U Thor <author@example.com>
```

```
---
```

```
arch/i386/kernel/dmi_scan.c |    2 +-
1 files changed, 1 insertions(+), 1 deletions(-)
```

```
diff --git a/arch/i386/kernel/dmi_scan.c b/arch/i386/kernel/dmi_scan.c
```

```
index 5efceb..5dcc7a4 100644
```

```
--- a/arch/i386/kernel/dmi_scan.c
```

```
+++ b/arch/i386/kernel/dmi_scan.c
```

```
@@ -34,7 +34,7 @@ static char * __init dmi_string(struct d
```

```
/*
```

```
 * We have to be cautious here. We have seen BIOSes with DMI pointers
```

```
- * pointing to completely the wrong place for example
```

```
+ * pointing to completely the wrong place for example.
```

```
*/
```

```
static int __init dmi_table(u32 base, int len, int num,
                           void (*decode)(struct dmi_header *))
```

```
--
```

```
1.3.3.g47e6
```

```
: nnisry;
```

am (apply mbox)

```
: nnisry; git grep -e 'the wrong place for example$' -- arch/i386/kernel  
arch/i386/kernel/dmi_scan.c: * pointing to completely the wrong place for example  
: nnisry; git grep -e 'the wrong place for example$' v2.6.12 -- arch/i386/kernel  
v2.6.12:arch/i386/kernel/dmi_scan.c: * pointing to completely the wrong place for  
example  
: nnisry; git checkout -b spell master  
: nnisry; git am ../material/patch01.diff
```

Applying 'dmi_scan.c: end comment sentence with a full stop'

Wrote tree 12788183af913c8a0bb864457f3b4e24c8524fa7

Committed: b50a7915e8f2282b62ff40e89744636ccee57810

```
: nnisry; git show-branch
```

```
! [master] fix non-leader exec under ptrace
```

```
! [origin] fix non-leader exec under ptrace
```

```
* [spell] dmi_scan.c: end comment sentence with a full stop
```

```
! [via8236] [i386] pci/irq: add VIA 8236
```

```
----
```

```
* [spell] dmi_scan.c: end comment sentence with a full stop
```

```
+ [via8236] [i386] pci/irq: add VIA 8236
```

```
+++ [master] fix non-leader exec under ptrace
```

```
: nnisry; git reset --hard HEAD^
```

```
: nnisry; git show-branch
```

```
! [master] fix non-leader exec under ptrace
```

```
! [origin] fix non-leader exec under ptrace
```

```
* [spell] fix non-leader exec under ptrace
```

```
! [via8236] [i386] pci/irq: add VIA 8236
```

```
----
```

```
+ [via8236] [i386] pci/irq: add VIA 8236
```

```
+++ [master] fix non-leader exec under ptrace
```

am (apply mbox)

```
: nnisry; git am -s -i ../material/patch01.diff
```

```
Commit Body is:
```

```
-----  
dmi_scan.c: end comment sentence with a full stop
```

```
Signed-off-by: A U Thor <author@example.com>
```

```
Signed-off-by: Junio C Hamano <junio@twinsun.com>
```

```
-----  
Apply? [y]es/[n]o/[e]dit/[v]iew patch/[a]ccept all e
```

```
dmi_scan.c: end comment sentence with a full stop.
```

```
Signed-off-by: A U Thor <author@example.com>
```

```
Signed-off-by: Junio C Hamano <junio@twinsun.com>
```

```
~  
~
```

```
.dotest/final-commit: 4 lines, 147 characters.
```

```
Commit Body is:
```

```
-----  
dmi_scan.c: end comment sentence with a full stop.
```

```
Signed-off-by: A U Thor <author@example.com>
```

```
Signed-off-by: Junio C Hamano <junio@twinsun.com>
```

```
-----  
Apply? [y]es/[n]o/[e]dit/[v]iew patch/[a]ccept all y
```

```
Applying 'dmi_scan.c: end comment sentence with a full stop'
```

```
Wrote tree 12788183af913c8a0bb864457f3b4e24c8524fa7
```

```
Committed: 49a75c18f483d1d986ff3d44564caeeefddb6af2
```

```
: nnisry;
```

```
Introduction to git.
```

```
Copyright © 2006 Junio C Hamano, All rights reserved.
```

am (apply mbox)

```

: nnisry; git checkout -b test master
: nnisry; git branch
  master
  origin
  spell
* test
  via8236
: nnisry; git pull . via8236 spell
Trying simple merge with 94a0a8e90d6a1875709be62b90da390524cad960
Trying simple merge with 49a75c18f483d1d986ff3d44564caeeefddb6af2
Merge 11d7228fc4ce9be762bcd8fe71050c8e42c0dab3, made by octopus.
  arch/i386/kernel/dmi_scan.c |      2 +-
  arch/i386/pci/irq.c          |     11 +++++-----
  include/linux/pci_ids.h     |      1 +
  3 files changed, 7 insertions(+), 7 deletions(-)
: nnisry; git show-branch
! [master] fix non-leader exec under ptrace
! [origin] fix non-leader exec under ptrace
! [spell] dmi_scan.c: end comment sentence with a full stop.
* [test] Merge branches 'via8236' and 'spell' into test
! [via8236] [i386] pci/irq: add VIA 8236
-----
- [test] Merge branches 'via8236' and 'spell' into test
+* [spell] dmi_scan.c: end comment sentence with a full stop.
*+ [via8236] [i386] pci/irq: add VIA 8236
+++++ [master] fix non-leader exec under ptrace
: nnisry; gitk

```

merge

gitk

File Edit View Help

test Merge branches 'via8236' and 'spell' into test
 spell dmi_scan.c: end comment sentence with a
 via8236 [i386] pci/irq: add VIA 8236
 master origin [PATCH] fix non-leader exec ur
 [PATCH] de_thread: Don't change our parents and p
 Merge branch 'release' of git://git.kernel.org/pub/scn
 [IA64] Make show_mem() skip holes in a pgdat
 [IA64] ia64_wait_for_slaves() incorrectly reports MC
 [PATCH] do_SAK: Don't recursively take the tasklis
 Merge branch 'for-linus' of master.kernel.org:/pub/sc
 IB/mthca: Fix max_sra_sae returned by ib_auerv_d

| | |
|---|---------------------|
| Junio C Hamano <junio@twinsun.com> | 2006-05-29 13:23:10 |
| A U Thor <author@example.com> | 2006-05-28 15:36:23 |
| Junio C Hamano <junio@twinsun.com> | 2006-05-29 12:27:03 |
| Roland McGrath <roland@redhat.com> | 2006-04-12 16:30:20 |
| Eric W. Biederman <ebiederm@xmission.> | 2006-04-14 03:05:55 |
| Linus Torvalds <torvalds@g5.osdl.org> | 2006-04-13 20:30:58 |
| Robin Holt <holt@sgi.com> | 2006-04-13 15:34:45 |
| Keith Owens <kaos@sgi.com> | 2006-04-10 21:59:41 |
| Eric W. Biederman <ebiederm@xmission.> | 2006-04-13 03:49:07 |
| Linus Torvalds <torvalds@g5.osdl.org> | 2006-04-12 16:07:54 |
| Jack Morcenstein <jackm@mellanox.co.il> | 2006-04-11 08:16:27 |

SHA1 ID: 11d7228fc4ce9be762bcd8fe71050c8e42c0dab3 Find All fields

Author: Junio C Hamano <junio@twinsun.com> 2006-05-29 13:23:10
 Committer: Junio C Hamano <junio@twinsun.com> 2006-05-29 13:23:1
 Parent: [94a0a8e90d6a1875709be62b90da390524cad960](#) (...)
 Parent: [49a75c18f483d1d986ff3d44564caeeefddb6af2](#) (...)

Merge branches 'via8236' and 'spell' into test

Comments

```

: nnisry; git checkout master
: nnisry; git pull
Unpacking 511 objects
 100% (511/511) done
* refs/heads/origin: fast forward to branch 'master' of git://git.kernel.org/pub/sc...
  from e57a5059846e55d82b86d96dde40e988598601b3 to 11f16971ceeb0f442e58f318b0cfde8e...
Updating from e57a5059846e55d82b86d96dde40e988598601b3 to 11f16971ceeb0f442e58f318b...
Fast forward
 Documentation/DMA-API.txt          |    49 +-
 Documentation/DMA-mapping.txt      |    22 +
 Documentation/i2c/busses/i2c-parport |    16 -
 ...
 include/linux/usb/net2280.h        |  444 ++++++
 kernel/power/pm.c                  |    20 -
 lib/kobject.c                       |     1
 scripts/kconfig/lxdialog/checklist.c |    19 -
106 files changed, 2627 insertions(+), 1070 deletions(-)
rename arch/i386/kernel/dmi_scan.c => drivers/firmware/dmi_scan.c (98%)
create mode 100644 drivers/usb/host/pci-quirks.h
create mode 100644 drivers/usb/input/usbtouchscreen.c
create mode 100644 drivers/usb/serial/funsoft.c
create mode 100644 include/linux/usb/net2280.h
: nnisry;

```

update

```
: nnisry; git checkout test
: nnisry; git pull . master
Trying really trivial in-index merge...
fatal: Merge requires file-level merging
Nope.
Merging HEAD with 11f16971ceeb0f442e58f318b0cfde8eb35296bb
Merging:
11d7228fc4ce9be762bcd8fe71050c8e42c0dab3 Merge branches 'via8236' and 'spell' into test
11f16971ceeb0f442e58f318b0cfde8eb35296bb Merge
master.kernel.org:/pub/scm/linux\kernel/git/gregkh/i2c-2.6
found 1 common ancestor(s):
e57a5059846e55d82b86d96dde40e988598601b3 [PATCH] fix non-leader exec under ptrace
Renaming arch/i386/kernel/dmi_scan.c => drivers/firmware/dmi_scan.c
Auto-merging drivers/firmware/dmi_scan.c
Auto-merging include/linux/pci_ids.h
Auto-merging arch/i386/pci/irq.c
CONFLICT (content): Merge conflict in arch/i386/pci/irq.c

Automatic merge failed; fix conflicts and then commit the result.
: nnisry;
```

merge

```

: nnisry; git diff MERGE_HEAD -- drivers/firmware/dmi_scan.c
diff --git a/drivers/firmware/dmi_scan.c b/drivers/firmware/dmi_scan.c
index 948bd7e..1637cd6 100644
--- a/drivers/firmware/dmi_scan.c
+++ b/drivers/firmware/dmi_scan.c
@@ -34,7 +34,7 @@ static char * __init dmi_string(struct d

/*
 * We have to be cautious here. We have seen BIOSes with DMI pointers
- * pointing to completely the wrong place for example
+ * pointing to completely the wrong place for example.
 */
static int __init dmi_table(u32 base, int len, int num,
                           void (*decode)(struct dmi_header *))
: nnisry; git diff MERGE_HEAD -- include/linux/pci_ids.h
diff --git a/include/linux/pci_ids.h b/include/linux/pci_ids.h
index 8d03e10..f491c37 100644
--- a/include/linux/pci_ids.h
+++ b/include/linux/pci_ids.h
@@ -1271,6 +1271,7 @@ #define PCI_DEVICE_ID_VIA_XN266          0x3156
#define PCI_DEVICE_ID_VIA_6410          0x3164
#define PCI_DEVICE_ID_VIA_8754C_0       0x3168
#define PCI_DEVICE_ID_VIA_8235         0x3177
+#define PCI_DEVICE_ID_VIA_8236         0x3178
#define PCI_DEVICE_ID_VIA_8385_0       0x3188
#define PCI_DEVICE_ID_VIA_8377_0       0x3189
#define PCI_DEVICE_ID_VIA_8378_0       0x3205

```

merge

```

: nnisry; git diff
diff --cc arch/i386/pci/irq.c
index e60997e,7323544..0000000
--- a/arch/i386/pci/irq.c
+++ b/arch/i386/pci/irq.c
@@@ -586,8 -588,10 +586,14 @@@
     case PCI_DEVICE_ID_VIA_82C596:
     case PCI_DEVICE_ID_VIA_82C686:
     case PCI_DEVICE_ID_VIA_8231:
+    case PCI_DEVICE_ID_VIA_8233A:
     case PCI_DEVICE_ID_VIA_8235:
++<<<<<< HEAD/arch/i386/pci/irq.c
+    case PCI_DEVICE_ID_VIA_8236:
++=====
+    case PCI_DEVICE_ID_VIA_8237:
+    case PCI_DEVICE_ID_VIA_8237_SATA:
++>>>>>> 11f16971ceeb0f442e58f318b0cfde8eb35296bb/arch/i386/pci/irq.c
        /* FIXME: add new ones for 8233/5 */
        r->name = "VIA";
        r->get = pirq_via_get;
: nnisry; vi +590 arch/i386/pci/irq.c

```

merge

```
: nnisry; vi +590 arch/i386/pci/irq.c
: nnisry; git diff
diff --cc arch/i386/pci/irq.c
index e60997e,7323544..0000000
--- a/arch/i386/pci/irq.c
+++ b/arch/i386/pci/irq.c
@@@ -586,8 -588,10 +586,11 @@@
     case PCI_DEVICE_ID_VIA_82C596:
     case PCI_DEVICE_ID_VIA_82C686:
     case PCI_DEVICE_ID_VIA_8231:
+    case PCI_DEVICE_ID_VIA_8233A:
     case PCI_DEVICE_ID_VIA_8235:
+    case PCI_DEVICE_ID_VIA_8236:
+    case PCI_DEVICE_ID_VIA_8237:
+    case PCI_DEVICE_ID_VIA_8237_SATA:
         /* FIXME: add new ones for 8233/5 */
         r->name = "VIA";
         r->get = pirq_via_get;
```

merge

```
: nnisry; git commit -a -s
```

```
Merge branch 'master' into test
```

```
Conflicts:
```

```
    arch/i386/pci/irq.c (trivial - kept our via8236 changes)
```

```
Signed-off-by: Junio C Hamano <junio@twinsun.com>
```

```
# It looks like you may be committing a MERGE.
```

```
# If this is not correct, please remove the file
```

```
#     .git/MERGE_HEAD
```

```
# and try again
```

```
#
```

```
# Please enter the commit message for your changes.
```

```
# (Comment lines starting with '#' will not be included)
```

```
# On branch refs/heads/test
```

```
#
```

```
# Updated but not checked in:
```

```
#   (will commit)
```

```
#
```

```
#       modified: Documentation/DMA-API.txt
```

```
#       modified: Documentation/DMA-mapping.txt
```

```
#       modified: Documentation/i2c/busses/i2c-parport
```

```
...
```

merge

```
: nnisry; git show -M
commit a88c3d16810f3e5c83a4573519d4d3c9d428f6fa
Merge: 11d7228... 11f1697...
Author: Junio C Hamano <junio@twinsun.com>
Date: Mon May 29 13:33:24 2006 -0700
```

Merge branch 'master' into test

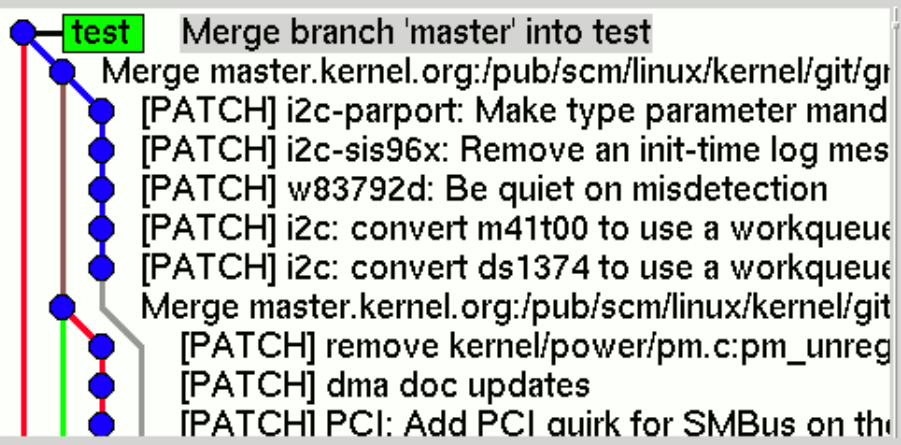
Conflicts:

arch/i386/pci/irq.c (trivial - kept our via8236 changes)

Signed-off-by: Junio C Hamano <junio@twinsun.com>

```
diff --cc arch/i386/pci/irq.c
index e60997e,7323544..65e0cef
--- a/arch/i386/pci/irq.c
+++ b/arch/i386/pci/irq.c
@@@ -586,8 -588,10 +586,11 @@@
     case PCI_DEVICE_ID_VIA_82C596:
     case PCI_DEVICE_ID_VIA_82C686:
     case PCI_DEVICE_ID_VIA_8231:
+    case PCI_DEVICE_ID_VIA_8233A:
     case PCI_DEVICE_ID_VIA_8235:
+    case PCI_DEVICE_ID_VIA_8236:
+    case PCI_DEVICE_ID_VIA_8237:
+    case PCI_DEVICE_ID_VIA_8237_SATA:
         /* FIXME: add new ones for 8233/5 */
         r->name = "VIA";
         r->get = pirq_via_get;
```

```
: nnisry; gitk
```



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 Linus Torvalds <torvalds@g5.osdl.org>
 Adrian Bunk <bunk@stusta.de>
 David Brownell <david-b@pacbell.net>
 Jean Delvare <khali@linux-fr.org>

2006-05-29 13:33:24
 2006-04-14 17:08:41
 2006-03-23 07:50:25
 2006-03-23 07:49:34
 2006-03-23 07:38:21
 2006-03-31 13:06:03
 2006-03-31 13:05:01
 2006-04-14 17:08:18
 2006-03-31 01:38:12
 2006-04-01 10:21:52
 2006-04-01 06:46:35

SHA1 ID: a88c3d16810f3e5c83a4573519d4d3c9d428f6fa Find All fields

Author: Junio C Hamano <junio@twinsun.com> 2006-05-29 13:33:24
 Committer: Junio C Hamano <junio@twinsun.com> 2006-05-29 13:33:2
 Parent: 11d7228fc4ce9be762bcd8fe71050c8e42c0dab3 (...)
 Parent: 11f16971ceeb0f442e58f318b0cfde8eb35296bb (...)

Merge branch 'master' into test

Conflicts:

- arch/i386/pci/irq.c (trivial - kept our via8236 changes)

Signed-off-by: Junio C Hamano <junio@twinsun.com>

```
----- arch/i386/pci/irq.c -----
--- a/arch/i386/pci/irq.c
+++ b/arch/i386/pci/irq.c
@@@ -586,8 -588,10 +586,11 @@@
     case PCI_DEVICE_ID_VIA_82C596:
     case PCI_DEVICE_ID_VIA_82C686:
     case PCI_DEVICE_ID_VIA_8231:
+    case PCI_DEVICE_ID_VIA_8233A:
     case PCI_DEVICE_ID_VIA_8235:
```

Patch Tree

Comments
 arch/i386/pci/irq.c

```

: nnisry; git checkout master
: nnisry; git pull
Unpacking 324 objects
 100% (324/324) done
* refs/heads/origin: fast forward to branch 'master' of git://git.kernel.org/pub/scm/...
  from 11f16971ceeb0f442e58f318b0cfde8eb35296bb to f2f4d9e8cb7d4180ac1830eec49e18fef7...
Updating from 11f16971ceeb0f442e58f318b0cfde8eb35296bb to f2f4d9e8cb7d4180ac1830eec49...
Fast forward
 arch/sparc/kernel/systbls.S      |      2
 arch/sparc64/kernel/sys32.S     |      1
 arch/sparc64/kernel/systbls.S   |      4
 ...
 include/scsi/scsi_devinfo.h     |      1
 include/scsi/scsi_ioctl.h       |      2
 include/scsi/scsi_transport_fc.h |     41
48 files changed, 1103 insertions(+), 13273 deletions(-)
delete mode 100644 drivers/scsi/ibmvscsi/srp.h
delete mode 100644 drivers/scsi/qlogicfc.c
delete mode 100644 drivers/scsi/qlogicfc_asm.c
create mode 100644 drivers/scsi/scsi_sas_internal.h
: nnisry; git checkout test

```

update

```

: nnisry; git pull . master
Trying really trivial in-index merge...
fatal: Merge requires file-level merging
Nope.
Merging HEAD with f2f4d9e8cb7d4180ac1830eec49e18fef701c58c
Merging:
a88c3d16810f3e5c83a4573519d4d3c9d428f6fa Merge branch 'master' into test
f2f4d9e8cb7d4180ac1830eec49e18fef701c58c Merge master.kernel.org:/pub/scm/linux/ker...
found 1 common ancestor(s):
11f16971ceeb0f442e58f318b0cfde8eb35296bb Merge master.kernel.org:/pub/scm/linux/ker...
Removing drivers/scsi/ibmvscsi/srp.h
Removing drivers/scsi/qlogicfc.c
Removing drivers/scsi/qlogicfc_asm.c

Merge 628c2a7a1a81a6b2e70040f01390cfe95eefc46a, made by recursive.
 arch/sparc/kernel/systbls.S          |    2
...
include/scsi/scsi_ioctl.h            |    2
include/scsi/scsi_transport_fc.h     |   41
48 files changed, 1103 insertions(+), 13273 deletions(-)
delete mode 100644 drivers/scsi/ibmvscsi/srp.h
delete mode 100644 drivers/scsi/qlogicfc.c
delete mode 100644 drivers/scsi/qlogicfc_asm.c
create mode 100644 drivers/scsi/scsi_sas_internal.h
: nnisry; git diff --stat master
 arch/i386/pci/irq.c                  |   11 +++++-----
 drivers/firmware/dmi_scan.c          |    2 +-
 include/linux/pci_ids.h              |    1 +
 3 files changed, 7 insertions(+), 7 deletions(-)
: nnisry;

```

update

Introduction to git (git 入門)



おしまい

Junio C Hamano
<junio@kernel.org>

Log Searching (履歴探索)

- Limit change-log output by
 - revision ranges (版番号範囲)
`git log v2.6.12..v2.6.13-rc1`
 - paths that were changed (変更された範囲)
`git log - arch/i386 include/asm-i386`
 - hunks of text (変更部が含む文字列)
`git log -S '<a couple of lines of text>'`
- Combination of all of the above