

Re:제로부터 시작하는 오픈소스

KOSS Lab. 2기

Mario Cho (조만석)

hephaex@gmail.com

Re:ゼロから始める異世界生活
"I'LL BE HERE..." | ILLUSTRATION BY 741





Who am I ?

Development Experience

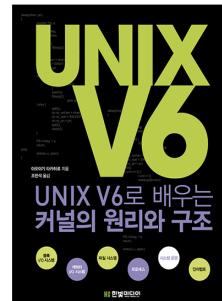
- ◆ Bio-Medical Data Processing based on HPC for Human Brain Mapping
- ◆ Bio-medical data processing based on Neural Network (Machine Learning)
- ◆ Medical Image Reconstruction (Computer Tomography)
- ◆ Enterprise System
- ◆ Open Source Software Developer

Open Source Software Developer

- ◆ Linux Kernel & LLVM
- ◆ OpenStack & OPNFV (NFV&SDN)
- ◆ Machine Learning (TensorFlow)

Technical Book

- ◆ Unix V6 Kernel



Open Frontier Lab.

Mario Cho

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Today's information



The Future of Jobs

Global Challenge Insight Report

WORLD ECONOMIC FORUM
COMMITTED TO IMPROVING THE STATE OF THE WORLD

The Future of Jobs

Employment, Skills and Workforce Strategy for the Fourth Industrial Revolution

January 2016

“**The Fourth Industrial Revolution**, which includes developments in previously disjointed fields such as **artificial intelligence & machine-learning**, **robotics**, **nanotechnology**, **3-D printing**, and **genetics & biotechnology**, will cause widespread disruption not only to business models but also to labor market over the next **five years**, with enormous change predicted in the skill sets needed to thrive in the new landscape.”

Open Source

I love
open source
& want to help

I support
open source
software
and the
the OSI

I support the free & open source movement

Open is the better way

Open Source is an idea that has changed the world for the better
The OSI helps keep that idea alive

Because I believe in open source

I deeply believe in the OSI mission

OSI
represents
hope

I am a firm believer in what the OSI, and other open source communities, are doing to keep software transparent

I want to help the OSI because it is time to give back after all the support they have provided

The OSI is redefining business

I have enjoyed the benefits of open source for many years and, now an open source contributor, would like to help support the open source infrastructure

talented people to collaborate on finding solutions

Open source
shapes our future

The OSI promotes and protects

open source

Open source software also spurs innovation and collaboration allowing different people to experiment with their own ideas about how the software could work

The open source movement needs this kind of support

The future depends on new ideas, alternatives and paradigms

Open Source Initiative provides a powerful community from across the globe

오픈 소스 프로젝트 찾기

1. 구글링

2. 오픈소스 커뮤니티에서 프로젝트 찾기

- The Apache Software Foundation(ASF)
- Jboss
- GitHub
- BitBucket
- Google Code
- CodeProject
- Sourceforge

오픈 소스 찾기: <https://www.ohloh.net>

 BLACKDUCK | Open HUB

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machinelearning 

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What's New

*What's going on with
Open Hub in 2016*

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Most Popular Projects

 Mozilla Firefox	 13136 users
 Apache HTTP Server	 9420 users
 MySQL	 9128 users
 Apache Subversion	 9091 users

Most Active Projects

 Giellatekno	 14365 commits
 Arch Linux Packages	 7209 commits
 Chromium (Google Chrome)	 6117 commits
 Gentoo Linux	 6041 commits

Most Active Contributors

 Felix Yan	 4900 commits
 Translation updater bot	 1062 commits
 luca suriano	 975 commits
 Mingcong Bai	 804 commits

오픈 소스 저장소: <https://github.com>



[Contributions](#) [Repositories](#) [Public activity](#) [Edit profile](#)

Popular repositories

 unix-v6 UNIX-V6 kernel	8 ★
 kernel ARM linux kernel study	3 ★
 toolchain OSX opensource toolchain	1 ★
 kernel_review The Linux Kernel review for ARMv7 3.13.0 (ex...)	1 ★
 a10c Linux kernel 3.x	0 ★

Repositories contributed to

 arm10c/linux-stable lamroot.org "Linux kernel study, ARM10C"	6 ★
 tensorflow/tensorflow Computation using data flow graphs for scalab...	23,716 ★

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 <http://manseok.blogspot.com>

 Joined on Mar 6, 2013

5 Followers **4** Starred **2** Following

Contributions

Summary of pull requests, issues opened, and commits. [Learn how we count contributions.](#)

Less  More

Contributions in the last year 753 total May 14, 2015 – May 14, 2016	Longest streak 12 days June 25 – July 6	Current streak 2 days May 13 – May 14
---	--	--

Contribution activity Period: May 13, 2016 ▾

→ 1 commit

Pushed 1 commit to tensorflow/tensorflow May 13

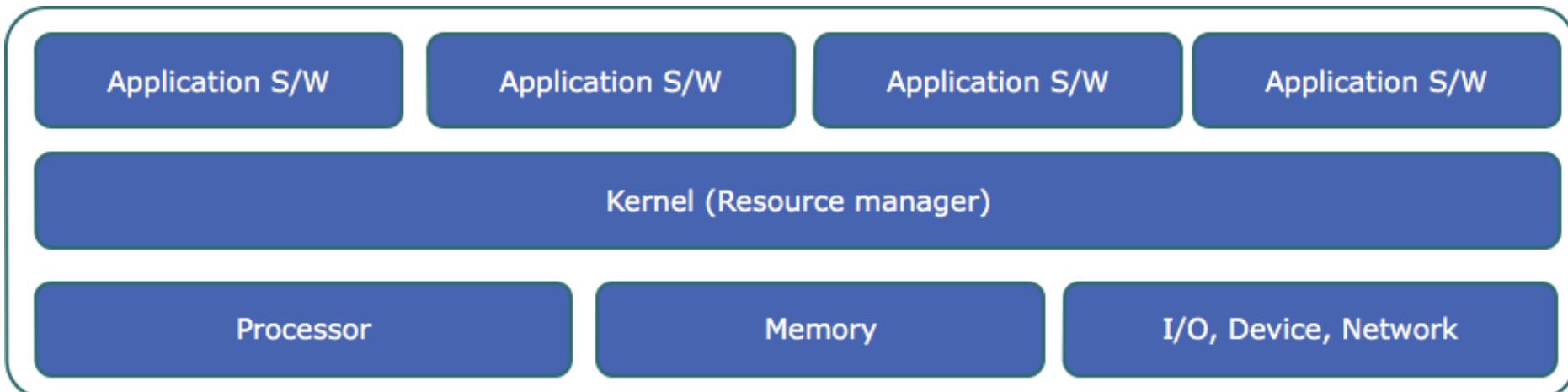
운영체계란?

운영체계

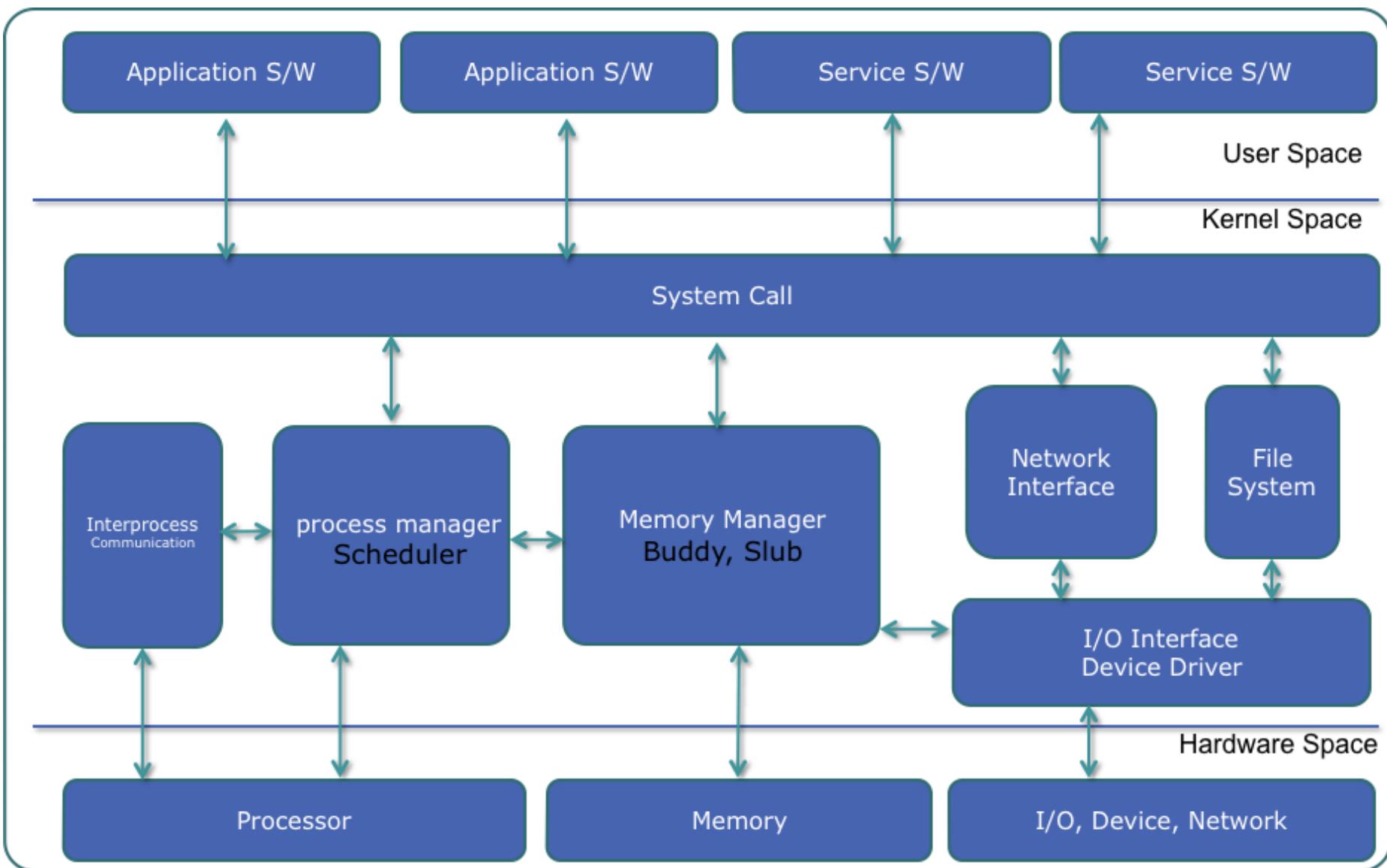
- 커널은 운영체제의 핵심으로 컴퓨터 시스템을 사용하는데 꼭 필요한 기능을 제공.

운영체계의 주 역할

- 실행 프로그램(프로세스**Process**) 관리
- 메모리 관리 (**Memory Management**)
- 파일 시스템 (**File System**)
- 파일과 주변 장치를 위한 I/O



Linux Kernel Architecture



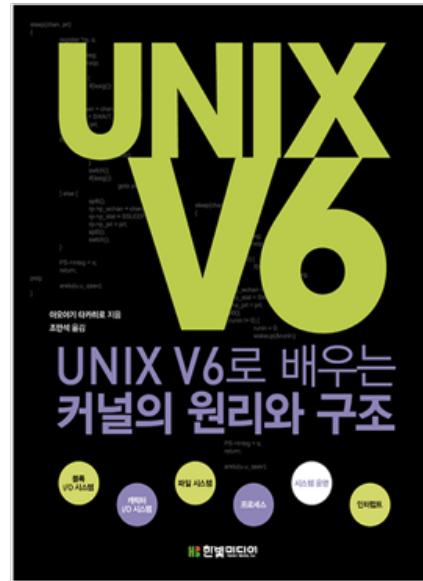
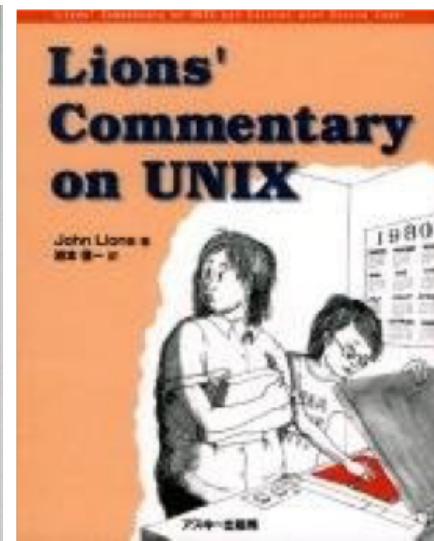
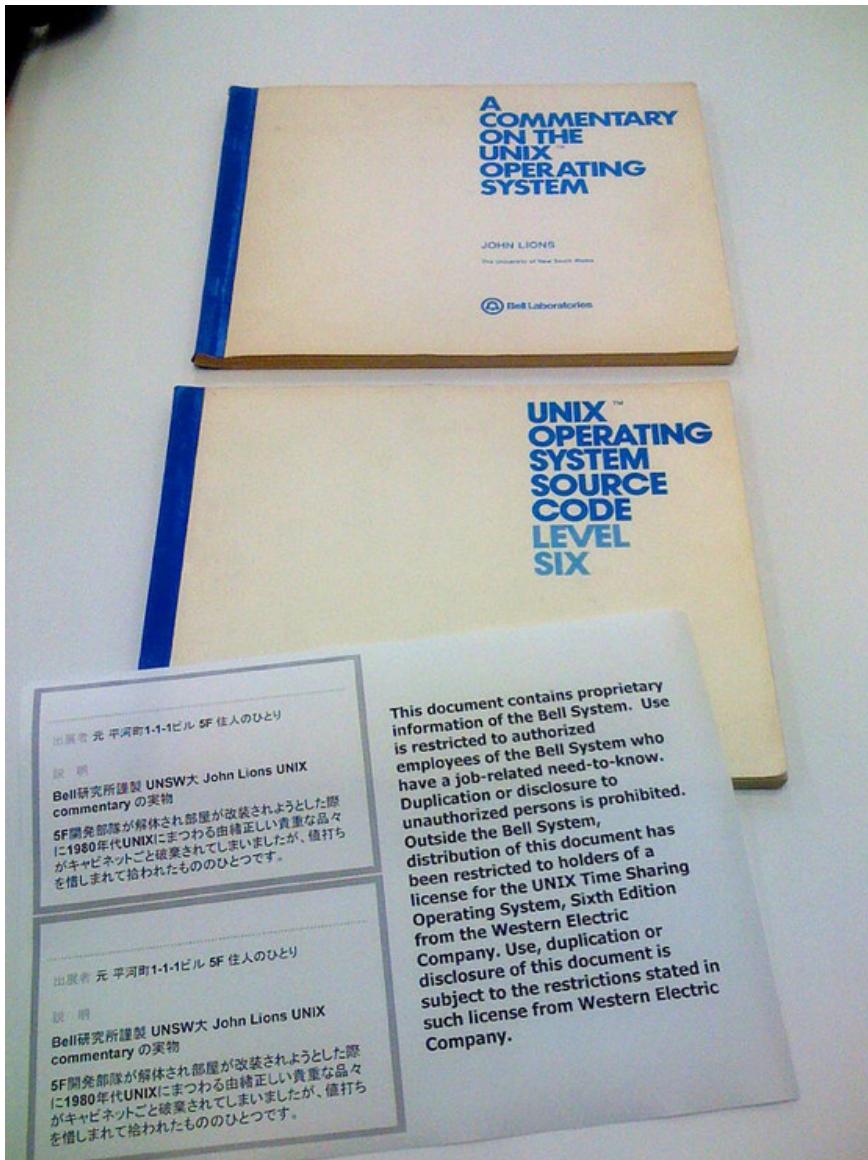
K&R (Ken Thompson & Dennis Richie)



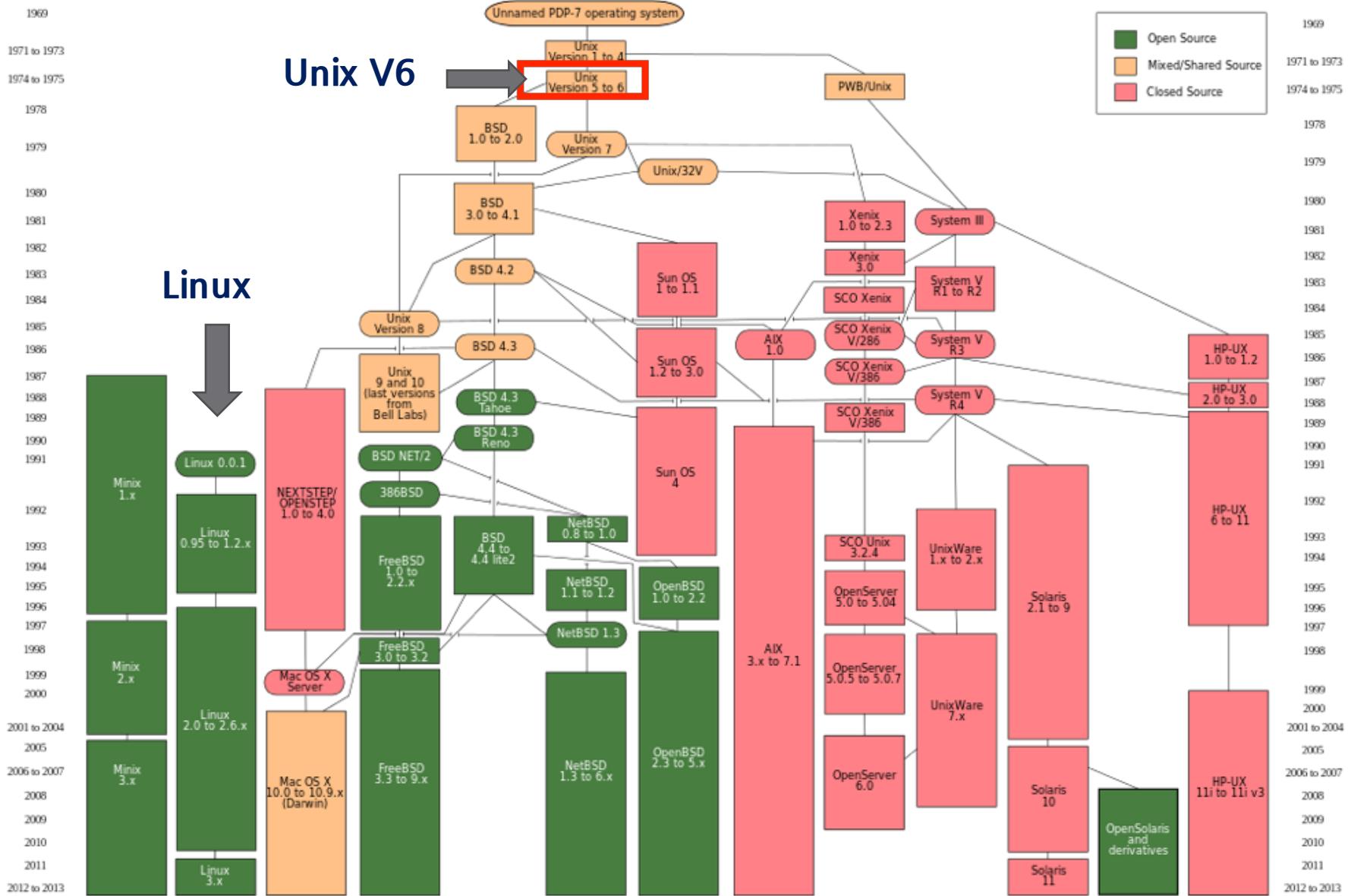
Brian W. Kernighan • Dennis M. Ritchie

PRENTICE HALL SOFTWARE SERIES

Lions Commentary on UNIX V6



Open Source OS From Unix V6 To Linux



리눅스 커널

운영체계

- Apple Mac OS system 1.x : 1984.x
- MS Windows 1.x : 1985.x
- Linux : 1991. 8.26

comp.os.minix >
What would you like to see most in minix?

199 posts by 183 authors 

Previous Page 1 Next

 Linus Benedict Torvalds

8/26/91



Hello everybody out there using minix -

I'm doing a (free) operating system (just a hobby, won't be big and professional like gnu) for 386(486) AT clones. This has been brewing since april, and is starting to get ready. I'd like any feedback on things people like/dislike in minix, as my OS resembles it somewhat (same physical layout of the file-system (due to practical reasons) among other things).

I've currently ported bash(1.08) and gcc(1.40), and things seem to work. This implies that I'll get something practical within a few months, and I'd like to know what features most people would want. Any suggestions are welcome, but I won't promise I'll implement them :-)

Linus (torv...@kruuna.helsinki.fi)

PS. Yes - it's free of any minix code, and it has a multi-threaded fs. It is NOT protable (uses 386 task switching etc), and it probably never will support anything other than AT-harddisks, as that's all I have :-.

Click here to [Reply](#)

 Jyrki Kuoppala

8/26/91



★ In article <1991Aug25....@klaava.Helsinki.FI>, torvalds@klaava (Linus Benedict Torvalds) writes:
>I've currently ported bash(1.08) and gcc(1.40), and things seem to work.
>This implies that I'll get something practical within a few months, and
>I'd like to know what features most people would want. Any suggestions
>are welcome, but I won't promise I'll implement them :-)

Tell us more! Does it need a MMU?

>PS. Yes - it's free of any minix code, and it has a multi-threaded fs.
>It is NOT protable (uses 386 task switching etc)



I. 오픈소스(커널)를 공부하기 위한 목표 설정

리눅스 커널을 공부하기 전에 대상과 어떤 것을 분석할지 목표를 분명히 합니다.
아울러 target device도 함께 정합니다. (추천 라즈베리 파이2)

- kernel boot process
 - boot loader에서부터 시작해서 하드웨어 초기화, 메모리 초기화, 인터럽트 설정,
 - init process에 이르는 일련의 과정을 분석.
 - 내용이 많지만, 하드웨어, 커널에서 사용하는 주요 메크로, 알고리즘을 배울 수 있음.
- mm_init() 분석
 - start_kernel()에 보면 메모리를 초기화 하는 mm_init()이 있습니다.
 - 리눅스 커널은 buddy와 slub을 이용해서 메모리를 관리합니다.
 - buddy와 slub이 어떻게 초기화 되고 커널에 메모리 초기화/할당/제거를 분석
- Device Driver 분석
 - GPIO 디바이스를 분석하고 라즈베리 파이2를 이용해서 실험
 - network 디바이스를 분석해서 network stack을 심화
- 그외 스케줄러 분석 등등.

II. 오픈소스(커널)를 공부하기 위해 필요한 것들

- Note PC or Desktop or Cloud connection
- Editor : Vim, Emacs, ???
- Tools: ctags, gtags, cscope, ...
- 참고 서적
 - AP Manual
 - ARM Cortex A Series Programmer Guide
 - ARM Cortex A15 Technical Reference Manual
 - kernel 분석에 필요한 AP user manual (가장 중요하지만, ...)
 - DTB (Device Tree Blob)
 - Power ePAPR_APPROVED_v1.1
 - Kernel 책들
 - UNIX V6로 배우는 커널의 원리와 구조 (운영체제에 대한 근본원리)
 - 코드로 알아보는 ARM 리눅스 커널 (2.6.x 커널 기준)
 - 리눅스 커널 해설 (2.6.x 커널)
 - 어셈블러
 - GNU : GNU Assembler Directive
 - GNU : GNU Assembler Manual
 - GNU : GNU Linker Manual

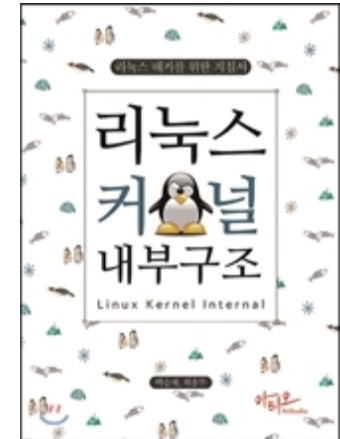
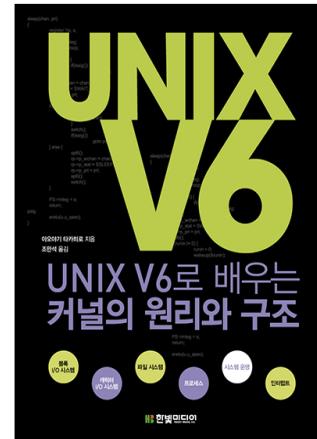
II. 오픈소스(커널)를 공부할 때 Ground Rule

커널은 코드의 양이 크기 때문에 (약 1500만 라인) 많은 지식을 필요로 하고, 많은 시간을 걸쳐서 하는 개발자 마라톤과 같은 부분이 있으므로 꾸준히 공부할 동료가 필요합니다.

1. 함께 공부할 친구를 찾는다. (개발자 커뮤니티)
2. 오픈 소스 스터디에서 존칭을 사용 (상호 존중)
3. 오픈 소스 스터디에 부담 주는 행동 자제. (한사람이 부담을 주는 행동들…)
4. 커널에 맞는 구하기 쉬운 디바이스 설정 (라즈베리 파이 2? or 3?)
5. 꾸준히 공부 할 수 있는 공간
6. 스터디 내용을 공유할 수 있는 인터넷 공간 (커뮤니티 게시판, 공유 문서)

III. 이론 공부 시작 Let's Start!!!

- 각자 다른 배경의 사람들이 커뮤니티에 있으므로 서로간의 눈높이를 맞추기 위해서 이론서를 함께 읽습니다.
- 이론서는 얇은 책으로…
- 라운드 로빈 방식으로 서로 조금씩 돌아가면서 읽습니다.



III. 이론 공부: Linux info from the source



Weekly edition	Kernel	Security	Distributions	Contact Us	Search
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SUPERMICRO *New!* **WIO**
2/6 Add-on Cards in 1U/2U
1TB DDR4-2133MHz in 16 DIMMs • 2/6 AOCs in 1U/2U • NVMe • Dual 10GbE-T
X10 [Learn More >](#) Redundant Platinum Level Power Supplies • UP and DP models
Intel® Xeon® Processor E5-2600 v3 product family

Linux CP① modules

Quick development
Embedded
Hardware
Peripherals for Industry
Applications



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Weekly edition

Current [\\$]

Inactive openSUSE members • Visible-light networks • Recent kernel security holes • Simple wait queues • Rich ACLs • Upcoming GStreamer work • ...

[Previous](#)

Simpler playback for

Welcome to LWN.net

LWN featured content

[\$] Rich access control lists

[Kernel] Posted Oct 20, 2015 20:19 UTC (Tue) by corbet

Access control lists (ACLs) can implement finer-grained access permissions for files than the traditional Unix mode bits. Linux has ACL support, but the POSIX ACLs supported by Linux now have been showing their age for a while. POSIX ACLs may soon be superseded by a more capable mechanism known as [RichACLs](#). Click below (subscribers only) for a look at RichACLs and what they bring to Linux.

[Full Story \(comments: 74\)](#)

Permissive licenses, community, and copyleft

[Front] Posted Oct 14, 2015 18:46 UTC (Wed) by n8willis

On the final day of [LinuxCon Europe](#) 2015, HP's Chief Technology Officer Martin Fink delivered a bold keynote about software licensing. Fink recapped the negative effects of license proliferation and addressed projects that use their choice of license as hostile act against the competition. He then ended the session with an extended appeal to move the open-source software industry away from permissive licenses like Apache 2.0 and toward copyleft licenses like the GPL. Not doing so, he said, puts the FOSS community

What is LWN.net?

LWN.net is a reader-supported news site dedicated to producing the best coverage from within the Linux and free software development communities. See the [LWN FAQ](#) for more information, and please consider [subscribing](#) to gain full access and support our activities.

Current news

Kernel prepatch 4.3-rc7

[Kernel] Posted Oct 25, 2015 6:09 UTC (Sun) by corbet

The [4.3-rc7](#) kernel prepatch is out. "So it may still be Saturday at home, but with the Kernel Summit in Korea coming up, I'm ahead of the curve in a +0900 timezone, and it's Sunday here. So it's release day." This looks to be the final prepatch, with 4.3 likely to come out on November 1.

[Comments \(none posted\)](#)

Coghlan: 27 languages to improve your Python

[Development] Posted Oct 25, 2015 1:00 UTC (Sun) by corbet

Python language developer Nick Coghlan has posted [a survey of 27 languages](#) that, he thinks, have lessons for Python. "One of the things we do as part of the Python core development process is to look at features we consider having available

IV. 소스 코드 분석



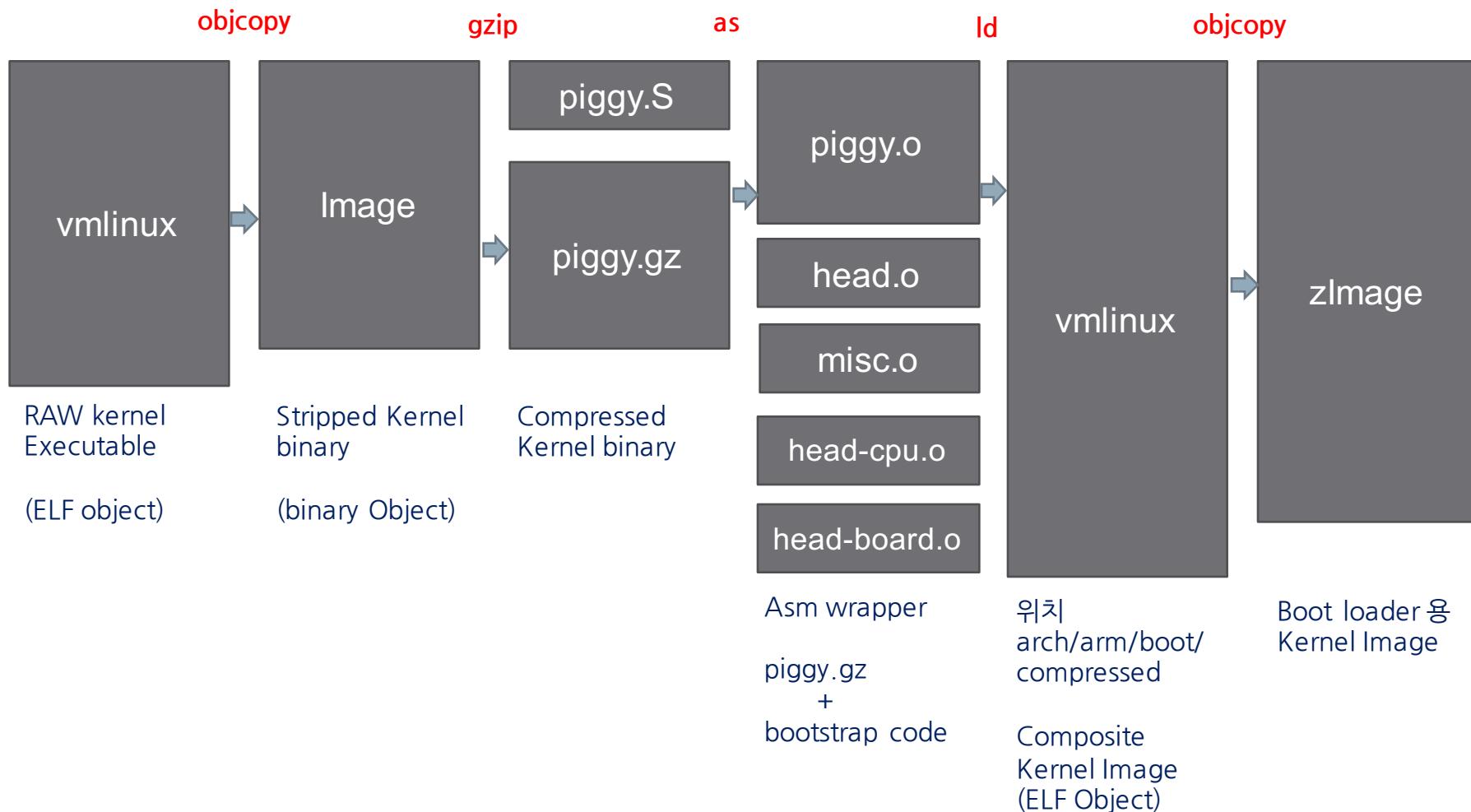
장소: 대학교 강의실, 토즈(?)

방법:

- 소스 코드 드라이빙
- 소스 코드를 보면서 토론.
- 인터넷 공유 문서
(구글 doc) 등으로 자료 공유

IV. Linux Kernel build up

- Make를 통해서 커널 소스 코드를 컴파일후 kernel image가 만들어지는 과정



Start_kernel()

```
614// ARM10C 20130824
615asmlinkage void __init start_kernel(void)
616{
617    char * command_line;
618    extern const struct kernel_param __start__param[], __stop__param[$
619    // ATAG,DTB 정보로 사용
620
621    /*
622     * Need to run as early as possible, to initialize the
623     * lockdep hash:
624     */
625    lockdep_init();
626    smp_setup_processor_id();
627    debug_objects_early_init();
628
629    /*
630     * Set up the the initial canary ASAP:
631     */
632    boot_init_stack_canary();
633
634    cgroup_init_early();
635    // cgroup 를 사용하기 위한 cgroup_dummy_root, cgroup_subsys 의 구조 $
636
637    local_irq_disable();
638    // IRQ를 disable 함
639
```

-UUU:***-F1 main.c 52% (613,0) Git-master (C/l AC yas Abbrev) -----

IV. 소스 코드 분석의 예 :start_kernel()

Boot Loader → start_kernel()

- Start_kernel()은 init 프로세스가 동작할 때까지 커널을 초기화합니다.
- 코드는 init/main.c에 정의합니다.

```
614// ARM10C 20130824
615asmlinkage void __init start_kernel(void)
616{
617    char * command_line;
618    extern const struct kernel_param __start__param[], __stop__param[$
619    // ATAG,DTB 정보로 사용
620
621    /*
622     * Need to run as early as possible, to initialize the
623     * lockdep hash:
624     */
625    lockdep_init();
626    smp_setup_processor_id();
627    debug_objects_early_init();
628
629    /*
630     * Set up the the initial canary ASAP:
631     */
632    boot_init_stack_canary();
633
634    cgroup_init_early();
635    // cgroup 를 사용하기 위한 cgroup_dummy_root, cgroup_subsys 의 구조 $
636
637    local_irq_disable();
638    // IRQ를 disable 함
639
```

-UUU:***-F1 main.c 52% (613,0) Git-master (C/l AC yas Abbrev) -----

IV. 소스 분석: tag를 이용해서 함수를 추적

리눅스 커널 개발을 위한 여러가지 도구제공

- ctags, gtags, cscope, ...

예) start_kernel() -> mm_init() -> mem_init()

```
a10c — emacs -nw init/main.c — 92x24
File Edit Options Tools Minibuf Buffers Services Help
724 // 131072, 65536개 만큼 hash table을 각각 만들
725
726// 2014/03/22 종료
727// 2014/03/29 시작
728
729     sort_main_extable();
730     // extable 을 cmp_ex를 이용하여 sort수행
731
732     trap_init(); // null function
733
734     mm_init();
735     // buddy와 slab 를 합친 후 기존 할당 받은 bootmem 은 buddy,
736     // pcpu 메모리 , vmlist 는 slab으로 바꾼
737
738// 2014/08/09 종료
739// 2014/08/30 시작
740
741 /*
742 * Set up the scheduler prior starting any interrupts (such as the
743 * timer interrupt). Full topology setup happens at smp_init()
744 * time - but meanwhile we still have a functioning scheduler.
-UUU:**--F1 main.c      62% (734,8)  Git-master  (C/l AC yas Abbrev) -----
Find tag (default mm_init): 
```

```
a10c — emacs -nw init/main.c — 92x24
File Edit Options Tools C Cscope YASnippet Buffers Services Help
562// ARM10C 20150919
563void __init __weak thread_info_cache_init(void)
564{
565}
566#endif
567
568/*
569 * Set up kernel memory allocators
570 */
571// ARM10C 20140329
572static void __init mm_init(void)
573{
574    /*
575     * page_cgroup requires contiguous pages,
576     * bigger than MAX_ORDER unless SPARSEMEM.
577     */
578     page_cgroup_init_flatmem(); // null function
579     mem_init();
580     // bootmem으로 관리하던 메모리를 buddy로 이관 .
581     // 각 section 메모리 크기를 출력 .
582
-UUU:----F1 main.c      49% (572,26)  Git-master  (C/l AC yas Abbrev) -----
Mark saved where search started
```

V. 커뮤니티 활동 : 공유 (기계학습)

Neuromancer.kr



기계학습 5주차 노트 (Coursera, CS229, by Andrew Ng)

■ 기계학습 (Machine Learning)



hephaex

1 15일 전

+ 연결된 토픽으로 답글 작성하기

Machine Learing Note (week #5)

- Neural Networks: Representation
- progress: 5주차
- 장소: 카페씨어터
- 일시: 2016.05.10
- Note:
 - 1주와 2주는 supervised learing에서 Linear Regression(선형 회귀)을 공부했습니다.
 - 3주는 classification(군집화)에 대하여 공부했습니다.
 - 4주는 기계학습에서 사용하는 신경망(neural network)을 공부했습니다.
 - 5주는 신경망이 어떻게 학습을 하는지에 대하여 공부합니다.

Week5 contents

- Cost Funciton and Backpropagation
 - Cost Function 비용함수
 - Backpropagation Algorithm 역전파 알고리즘
 - Backpropagation Intuition 역전파 직관
- Backpropagation in Practice 역전파 예시
 - Implementation Note: Unrolling Parameters 구현노트: 파라미터 풀어쓰기
 - Gradient Checking: 경사도 검증
 - Random Initialization 임의의 초기화
 - Putting It Together 함께 넣기.
- Application of Neural Networks 신경망 응용
 - Autonomous Driving 자율주행

Cost Function and Backpropagation 비용함수와 역전파.

V. start_kernel() 주요기능

start()_kernel()

- smp_setup_processor_id(); // physical CPU 0 (가칭) 으로 boot 진행
- cgroup_init_early(); // cgroup을 사용하기 위한 구조체 초기화
- boot_cpu_init(); // 현재 cpu(core id)를 읽어서 cpu_XXX_bits를 설정함
- **setup_arch();** // dtb를 읽어서 메모리 블록과 영역 초기화
- page_alloc_init(); // cpu_chain에 page_alloc_cpu_notify를 연결
- **mm_init();** // 메모리 블록에서 buddy초기화 후 stub 초기화
- sched_init(); // scheduller가 사용하는 구조체 초기화, init_task설정
- rcu_init(); // rcu자료 구조, bh, sched, preempt 초기화
- early_irq_init(); // irq_desc 0~15까지 object를 할당 받고 초기화
- **init_IRQ();** // GIC, COMBINER가 사용할 메모리 할당과 자료 구조 설정
- call_function_init(); // 각 cpu core에서 사용할 call_single_queue 초기화
- pidmap_init(); // pidmap 초기화
- **rest_init()** // init_process (PID 1번) 실행을 위한 초기화 후 실행

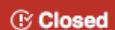
V. 커뮤니티 활동: 소스 코드 분석 공유

start()_kernel()->mm_init()->mem_init()->free_all_bootmem()->free_all_bootmem_core(bdata)->__freepages_bootmem(pfn_to_page(start),order)
bootmem으로 관리하던 메모리를 buddy로 바꾸는 과정입니다.

```
- while (start < end) {
-     shift = idx & (BITS_PER_LONG - 1);
-     if (IS_ALIGNED(start, BITS_PER_LONG) && vec == ~0UL) {
-         __free_pages_bootmem(pfn_to_page(start), order);
// CPU0의 vm_event_states.event[PGFREE]를 32로 설정함
// page에 해당하는 pageblock의 migrate flag를 반환함
// struct page의 index 멤버에 migratetype을 저장함
// struct page의 _count 멤버의 값을 0으로 초기화함
// order 5 buddy를 contig_page_data에 추가함
// (&contig_page_data)->node_zones[ZONE_NORMAL].vm_stat[NR_FREE_PAGES]: 32로 설정
// vmstat.c의 vm_stat[NR_FREE_PAGES] 전역 변수에도 32로 설정
        count += BITS_PER_LONG;
        start += BITS_PER_LONG;
    } else { // node_bootmem_map[0]의 값이 0아닐 경우
        while (vec && cur != start) {
            if (vec & 1) {
                __free_pages_bootmem(page, 0);
// CPU0의 vm_event_states.event[PGFREE]를 1로 설정함
// page에 해당하는 pageblock의 migrate flag를 반환함
// struct page의 index 멤버에 migratetype을 저장함
// struct page의 _count 멤버의 값을 0으로 초기화함
// order 0 buddy를 contig_page_data에 추가함
// (&contig_page_data)->node_zones[ZONE_NORMAL].vm_stat[NR_FREE_PAGES]: 1로 설정
// vmstat.c의 vm_stat[NR_FREE_PAGES] 전역 변수에도 1로 설정
                count++;
            }
        }
    }
}
```

VI. 커뮤니티 활동: 궁금하면 물어보자.

CudNN error running TensorFlow: Could not set cudnn filter descriptor: CUDNN_STATUS_BAD_PARAM #2033

[Edit](#)[New issue](#)

hephaex opened this issue on Apr 20 · 4 comments

hephaex commented on Apr 20



GitHub issues are for bugs / installation problems / feature requests.

For general support from the community, see [StackOverflow](#).

To make bugs and feature requests more easy to find and organize, we close issues that are deemed out of scope for GitHub Issues and point people to StackOverflow.

For bugs or installation issues, please provide the following information.

The more information you provide, the more easily we will be able to offer help and advice.

Environment info

Operating System: Ubuntu 14.04

Installed version of CUDA and cuDNN:

(please attach the output of `ls -l /path/to/cuda/lib/libcud*`):

```
$ ls -l /usr/local/cuda-7.5/lib64/libcud*
-rw-r--r-- 1 root root 322936 Aug 16 2015 /usr/local/cuda-7.5/lib64/libcudadevrt.a
lrwxrwxrwx 1 root root      16 Aug 16 2015 /usr/local/cuda-7.5/lib64/libcudart.so -> lib
lrwxrwxrwx 1 root root      19 Aug 16 2015 /usr/local/cuda-7.5/lib64/libcudart.so.7.5 ->
-rw-r--r-x 1 root root 383336 Aug 16 2015 /usr/local/cuda-7.5/lib64/libcudart.so.7.5.18
-rw-r--r-- 1 root root 720192 Aug 16 2015 /usr/local/cuda-7.5/lib64/libcudart_static.a
-rwrxr-xr-x 1 root root 59823168 Apr 19 15:15 /usr/local/cuda-7.5/lib64/libcudnn.so
-rwrxr-xr-x 1 root root 59823168 Apr 19 15:15 /usr/local/cuda-7.5/lib64/libcudnn.so.5
-rwrxr-xr-x 1 root root 59823168 Apr 19 15:15 /usr/local/cuda-7.5/lib64/libcudnn.so.5.0.4
-rw-r--r-- 1 root root 58734618 Apr 19 15:15 /usr/local/cuda-7.5/lib64/libcudnn_static.a
```

Labels

None yet

Milestone

No milestone

Assignee

No one assigned

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VII. 커뮤니티 활동: 아는 것을 알려주자.

! 51 Issues created by 40 people

- Opened #2343 Distributed Runtime protos aren't sandbox compatible 6 hours ago
- Opened #2342 "_too_large_attrs" for Graph visualization on Tensorboard. 6 hours ago
- Opened #2340 Tensor.eval() Performance Decay 7 hours ago
- Opened #2335 "bazel test" fails on MacOS with setuptools-21.0 20 hours ago
- Opened #2334 Immediate-mode execution in TensorFlow 21 hours ago
- Opened #2333 Building from source fail, error in tensorflow/core/lib/core/threadpool.cc 21 hours ago
- Opened #2332 install_name_tool error when running reduction_ops_test_gpu on OS X 23 hours ago
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- Opened #2326 tf.QueueBase.close() docs a day ago
- Opened #2324 Issue with tensorflow/core/lib/core/threadpool.cc a day ago
- Opened #2322 InvalidArgumentError: Cannot assign a device to node when distributed running a day ago
- Opened #2320 examples/udacity/1_notmnist.ipynb Image normalization is not equal to Udacity video 2 days ago
- Opened #2318 tf.constant should support pandas Series and DataFrame as input 2 days ago
- Opened #2317 Install the latest version whl of tensorflow from Jenkins daily build system, but can not find a part of the directory. 2 days ago
- Opened #2315 tf.nn.softmax outputs negative values (equal to tf.nn.log_softmax)! 2 days ago

VII. 커뮤니티 활동: 아는 것을 알려주자.



vrw commented on Apr 20



To use cudnn 5 you have to build from sources -- cudnn5 is not binary compatible with cudnn4, and our binaries use the latest official cudnn release (which is 4).



vrw closed this on Apr 20



jamlong commented on Apr 22 • edited



Short form:

@vrw I'd argue that the tensorflow.org should be update to reflect that, here:

https://www.tensorflow.org/versions/r0.8/get_started/os_setup.html#optional-install-cuda-gpus-on-linux

The following section is misleading, as it makes it sound like it should "just work" with other versions:

Download and install cuDNN

<https://developer.nvidia.com/cudnn>

Uncompress and copy the cuDNN files into the toolkit directory. Assuming the toolkit is installed in /usr/local/cuda, run the following commands (**edited to reflect the cuDNN version you downloaded**):

```
tar xvzf cudnn-6.5-linux-x64-v2.tgz  
sudo cp cudnn-6.5-linux-x64-v2/cudnn.h /usr/local/cuda/include  
sudo cp cudnn-6.5-linux-x64-v2/libcudnn* /usr/local/cuda/lib64  
sudo chmod a+r /usr/local/cuda/lib64/libcudnn*
```

Bolding for emphasis. No indication that you need to specifically download cudnn4 for that. The rest of the page merely says cudnn > 2.0. Also the versioning makes that more confusing than it needs to be (cudnn4 -> 6.5 cudnn5 -> 7.x, and the only way I know is by looking at the actual filenames in the download links)

On <https://developer.nvidia.com/cudnn>

Labels

None yet

Milestone

No milestone

Assignee

No one assigned

Notifications

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VIII. 커뮤니티 활동: 잘못 된것을 발견하면 수정

tensorflow / tensorflow

Code Issues Pull requests Pulse Graphs

Update os_setup.md (#2257)

From PR#2095, I've checked command to Installing from sources on OS X.

To set up the TensorFlow form source on OS X, pip installation need root permission.

```
> sudo pip install /tmp/tensorflow_pkg/tensorflow-0.8.0-py2-none-any.whl
```

hephaex committed with martinwicke 36 minutes ago 1 parent 82ff4cd commit ecd5b7255e05634cad6ea5e0bc680f7a9d981ba8

Showing 1 changed file with 1 addition and 1 deletion.

Unified Split

2 tensorflow/g3doc/get_started/os_setup.md

		@@ -630,7 +630,7 @@ \$ bazel build -c opt --config=cuda //tensorflow/tools/pip_package:build_pip_pack
630	630	\$ bazel-bin/tensorflow/tools/pip_package/build_pip_package /tmp/tensorflow_pkg
631	631	# The name of the .whl file will depend on your platform.
632	632	-\$ pip install /tmp/tensorflow_pkg/tensorflow-0.8.0-py2-none-linux_x86_64.whl
633	633	+\$ sudo pip install /tmp/tensorflow_pkg/tensorflow-0.8.0-py2-none-any.whl
634	634	```
635	635	
636	636	## Setting up TensorFlow for Development

0 comments on commit ecd5b72

Write Preview AA B i “ < > @

VIII. 커뮤니티 활동: 수정한 것을 함께 리뷰



tensorflow-jenkins commented 6 days ago



Can one of the admins verify this patch?



g googlebot added the **cla: yes** label 6 days ago



petewarden commented 3 days ago

tensorflow member



Test this please, Jenkins.



martinwicke commented 40 minutes ago

tensorflow member



I'm still not happy about just blanket adding sudo. We already have a sentence there saying the command (whl file name) may depend on the platform. I suggest we add there that "on some platforms (some versions of MacOS in particular), you may have to use sudo", without actually putting that into the code.

If you add sudo on a linux machine, it will actually mess with your pip install and prevent updates without sudo and all kinds of other nasty stuff.



martinwicke self-assigned this 40 minutes ago



martinwicke commented 37 minutes ago

tensorflow member



Never mind. I got confused where in the doc this was. Sorry about that.



martinwicke merged commit **ecd5b72** into **tensorflow:master** 37 minutes ago

[View details](#)

[Revert](#)

8 checks passed

IX. 커뮤니티 활동: 개선 결과 반영

This repository Search Pull requests Issues Gist

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Code Issues 434 Pull requests 41 Pulse Graphs

Computation using data flow graphs for scalable machine learning <http://tensorflow.org>

3,998 commits 10 branches 7 releases 219 contributors

Branch: master New pull request New file Upload files Find file HTTPS https://github.com/tensorflow/ Download ZIP

hephaex committed with martinwicke Update os_setup.md (#2257) ...	Latest commit ecd5b72 35 minutes ago
google Updated protobuf submodule to fb714b3 to bring in updates to grpc sup...	3 months ago
tensorflow Update os_setup.md (#2257)	35 minutes ago
third_party Merge commit for internal changes	14 days ago
tools Merge commit for internal changes	2 months ago
util/python Rollforward of "Merge changes from github."	2 months ago
.gitignore added cuda/extras and cuda/lib to gitignore (#2182)	11 days ago
.gitmodules Revert protobuf gitmodules back to github	2 months ago
ACKNOWLEDGMENTS TensorFlow: Improve performance of Alexnet	6 months ago
AUTHORS TensorFlow: Initial commit of TensorFlow library.	6 months ago
CONTRIBUTING.md Change contributing.md for new contribution policy.	5 months ago
ISSUE_TEMPLATE.md Merge changes from github.	24 days ago
LICENSE TensorFlow: Initial commit of TensorFlow library.	6 months ago
README.md Merge changes from github.	7 days ago
RELEASE.md Merge changes from github.	24 days ago



Thanks you!

Q&A