

Compatibility Issues on Open Source Licenses

2016. 11.

Agenda

- Introduction
 - Definitions of Compatibility
 - Open Source License Basics
- Kinds of Compatibility Issues
 - Proprietary License v. OSS License
 - OSS License v. OSS License
- Solutions and Remaining problems
 - License level
 - Community level
- Summary

Definitions

- **compatibility**

- the ability of machines, especially computers, or computer programs to work successfully with other machines or programs (Cambridge Dictionary)

- 소프트웨어 호환성, -互換性, software compatibility

- 어떤 기종을 위해 개발된 프로그램을 그대로 다른 기종의 컴퓨터상에서 실행하는 것이 가능하고 동일한 결과를 얻을 수 있을 때, 그 두 기종 간에 발생하는 호환성. 그 기종 간의 하드웨어명령 집합이 동일하지 않아도 특정한 운영 체제(OS)에서 동작시킬 수 있거나, 특정한 언어 처리계를 이용함으로써 실현될 수 있는 경우에도 일반적으로 소프트웨어 호환성이 있다고 할 수 있다. (TTA 정보통신용어사전)

Definitions

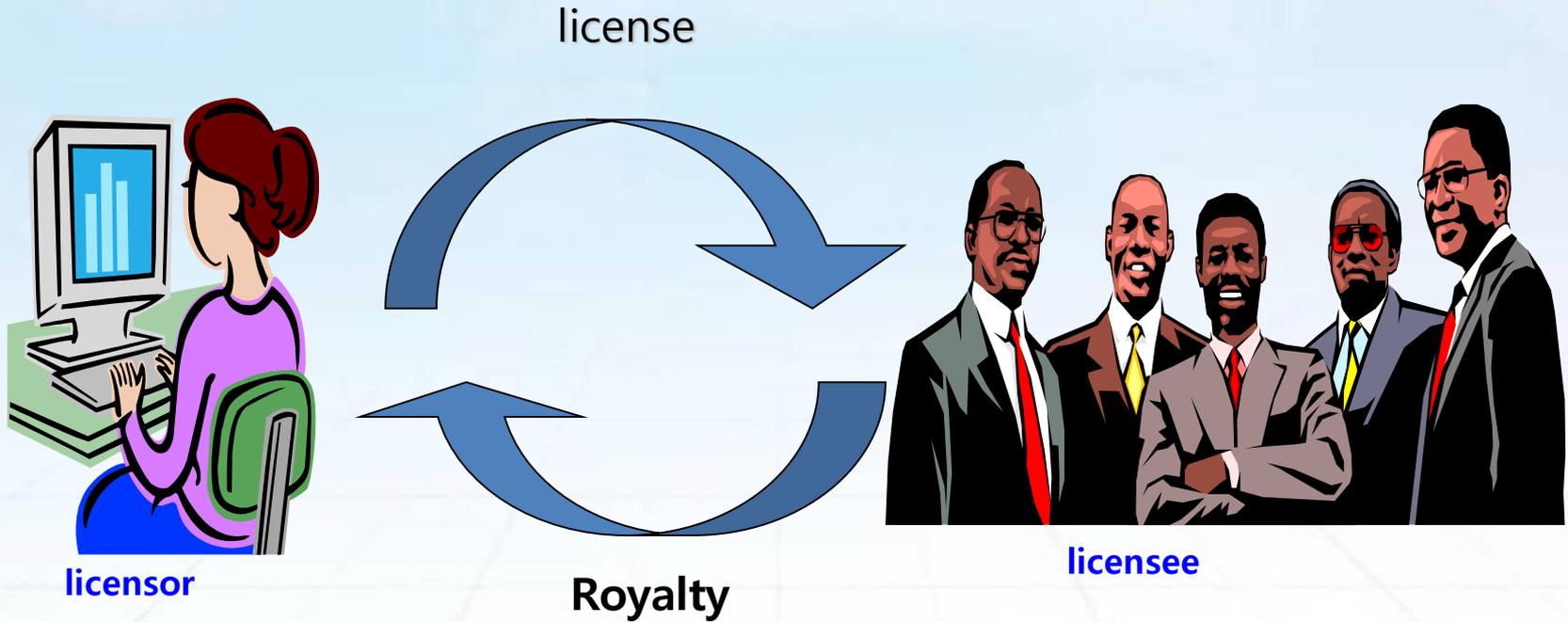
- License compatibility

is an issue that arises when licenses are applied to copyrighted works, particularly licenses of software packages (including software source code and binary representation).

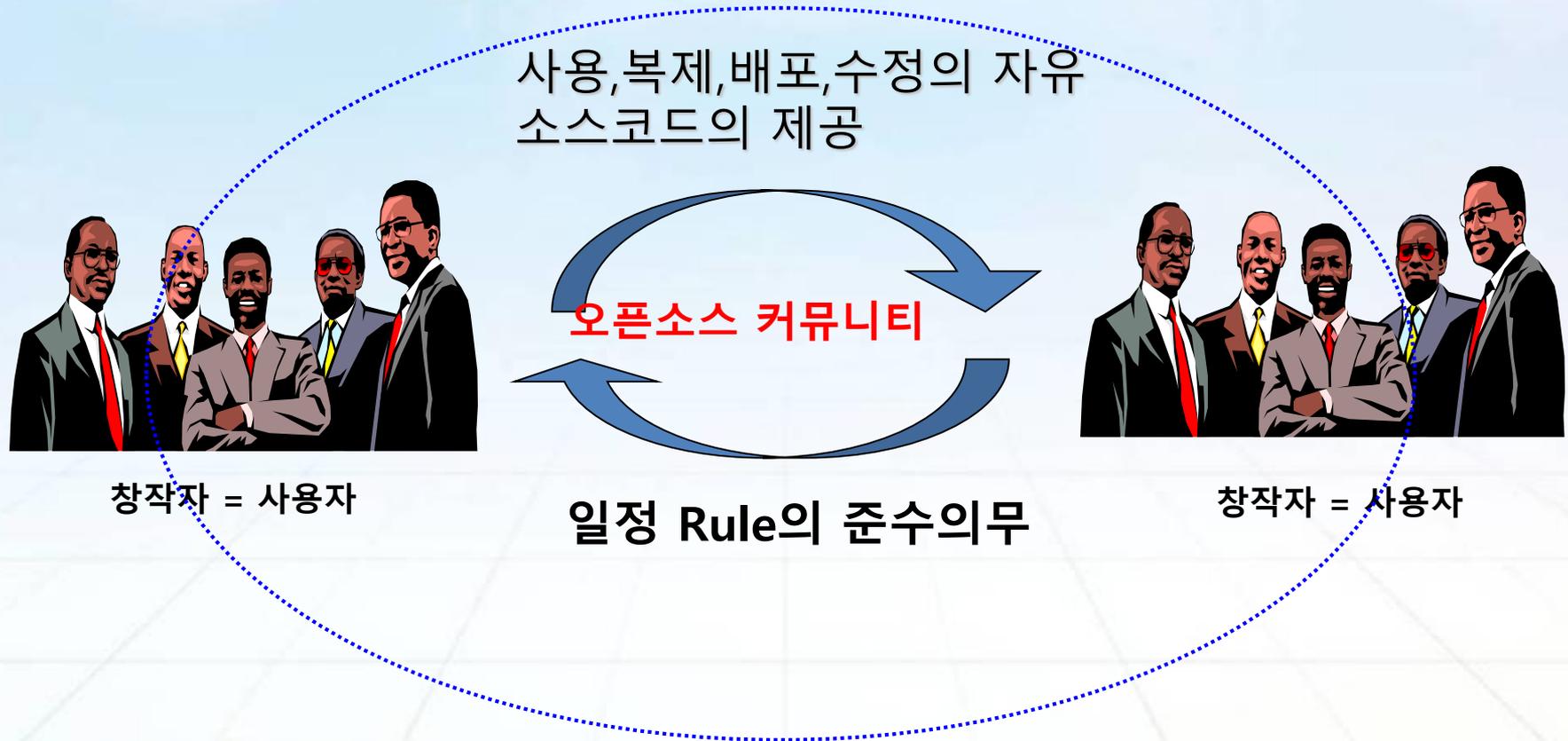
Licenses can contain contradictory requirements, rendering it impossible to combine source code or content from such works in order to create new ones

(Wikipedia)

OSS Basics : SW Business Model

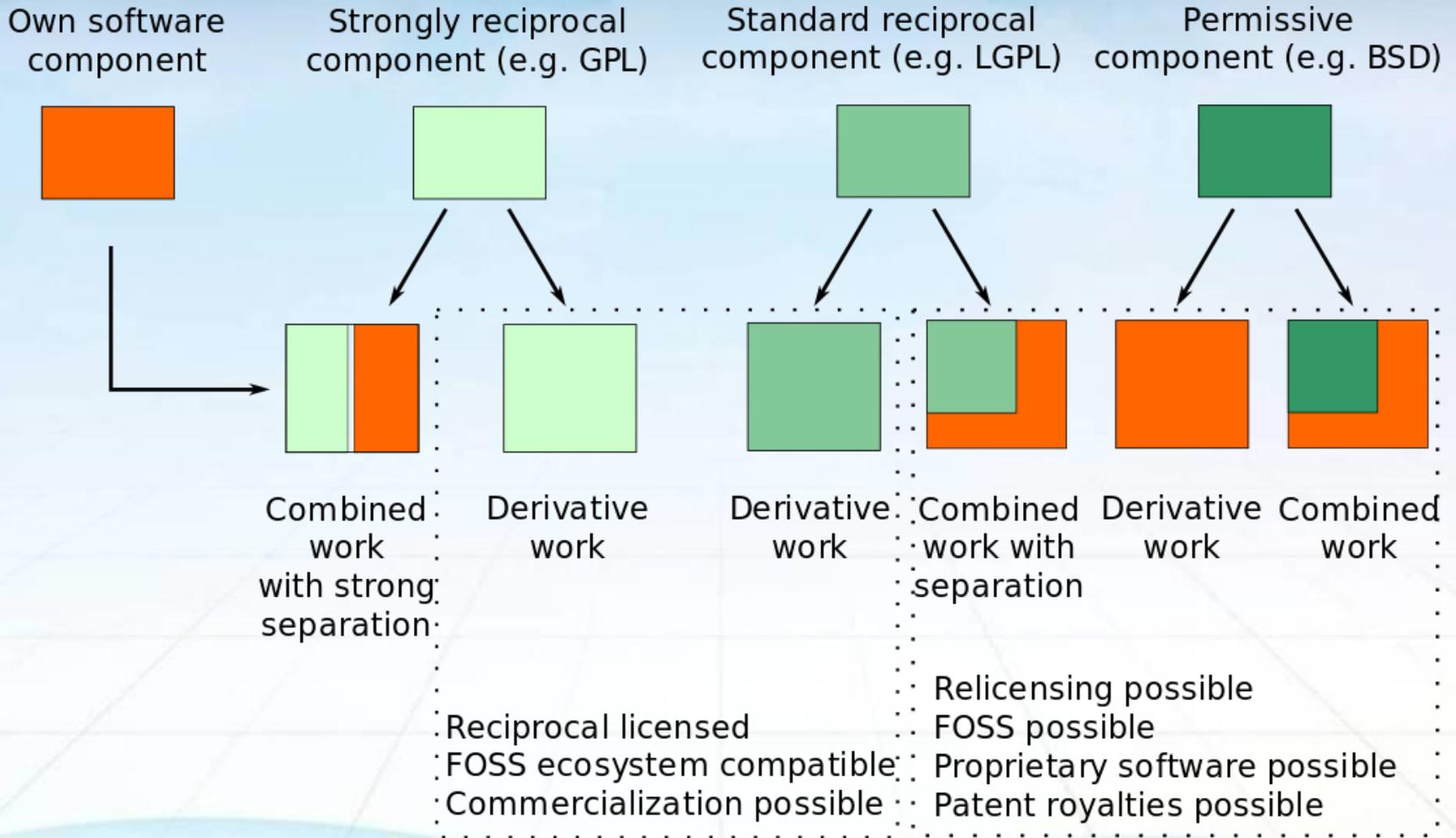


The Fundamentals of OSS License



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|---|-----|------------|----------|----------|-----------|---------|----------|-------------|
| 복제. 배포. 수정의 권한 허용 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 배포시 라이선스 사본 첨부 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 저작권고지사항 또는 Attribution 고지사항 유지 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 배포시 동일 라이선스 적용 및 소스코드 제공의 무(Reciprocity)와 범위 | | | d.w. | d.w. | d.w. | f. | f. | m. |
| 조합저작물(Larger Work)작성 및 타라이선스 배 포 허용 | ○ | ○ | | | ○ | ○ | ○ | ○ |
| 수정시 수정내용 고지 | | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 명시적 특허라이선스의 허용 | | ○ | | ○ | | ○ | ○ | ○ |
| 라이선시가 특허소송 제기시 라이선스 종료 | | ○ | | ○ | | ○ | ○ | ○ |
| 이름, 상표, 상호에 대한 사용제한 | ○ | ○ | | | | ○ | ○ | |
| 보증의 부인 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 책임의 제한 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |

Compatibility of SW Licenses



(source : wikipedia)

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 - Relicensing
 - GPL 2.0+ -> GPL 3.0
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 - LGPL -> GPL
 - Compatibility exception
 - GPL 3.0 v. AGPL

- GPL 2.0 +
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Solutions : License level

- LGPL -> GPL
 - LGPL 2.1

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GPL Compatibility

| | | I want to release a project under: | | | | | |
|--------------------------------|-------------------|------------------------------------|--|---------------------------------|--|---|------------------------------------|
| | | GPLv2 only | GPLv2 or later | GPLv3 or later | LGPLv2.1 only | LGPLv2.1 or later | LGPLv3 or later |
| I want to copy code under: | GPLv2 only | OK | OK [2] | NO | OK: Convey project under GPLv2 only [7] | OK: Convey project under GPLv2 only [7][2] | NO |
| | GPLv2 or later | OK [1] | OK | OK | OK: Convey project under GPLv2 or later [7] | OK: Convey project under GPLv2 or later [7] | OK: Convey project under GPLv3 [8] |
| | GPLv3 | NO | OK: Convey project under GPLv3 [3] | OK | OK: Convey project under GPLv3 [7] | OK: Convey project under GPLv3 [7] | OK: Convey project under GPLv3 [8] |
| | LGPLv2.1 only | OK: Convey code under GPLv2 [7] | OK: Convey code under GPLv2 or later [7] | OK: Convey code under GPLv3 [7] | OK | OK [6] | OK: Convey code under GPLv3 [7][8] |
| | LGPLv2.1 or later | OK: Convey code under GPLv2 [7][1] | OK: Convey code under GPLv2 or later [7] | OK: Convey code under GPLv3 [7] | OK [5] | OK | OK |
| | LGPLv3 | NO | OK: Convey project and code under GPLv3 [8][3] | OK: Convey code under GPLv3 [8] | OK: Convey project and code under GPLv3 [7][8] | OK: Convey project under LGPLv3 [4] | OK |
| I want to use a library under: | GPLv2 only | OK | OK [2] | NO | OK: Convey project under GPLv2 only [7] | OK: Convey project under GPLv2 only [7][2] | NO |
| | GPLv2 or later | OK [1] | OK | OK | OK: Convey project under GPLv2 or later [7] | OK: Convey project under GPLv2 or later [7] | OK: Convey project under GPLv3 [8] |
| | GPLv3 | NO | OK: Convey project under GPLv3 [3] | OK | OK: Convey project under GPLv3 [7] | OK: Convey project under GPLv3 [7] | OK: Convey project under GPLv3 [8] |
| | LGPLv2.1 only | OK | OK | OK | OK | OK | OK |
| | LGPLv2.1 or later | OK | OK | OK | OK | OK | OK |
| | LGPLv3 | NO | OK: Convey project under GPLv3 [9] | OK | OK | OK | OK |

(source : FSF)

GPL Compatibility

- Copyleft licenses and GPL
 - EPL
 - 특허보복조항
 - 준거법 조항
 - MPL 1.1
 - CDDL
 - CDDL'd ZFS into GPL'd Linux kernel

Solutions : Community level

- Mozilla Project
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(source : wikipedia)

- MPL 2.0

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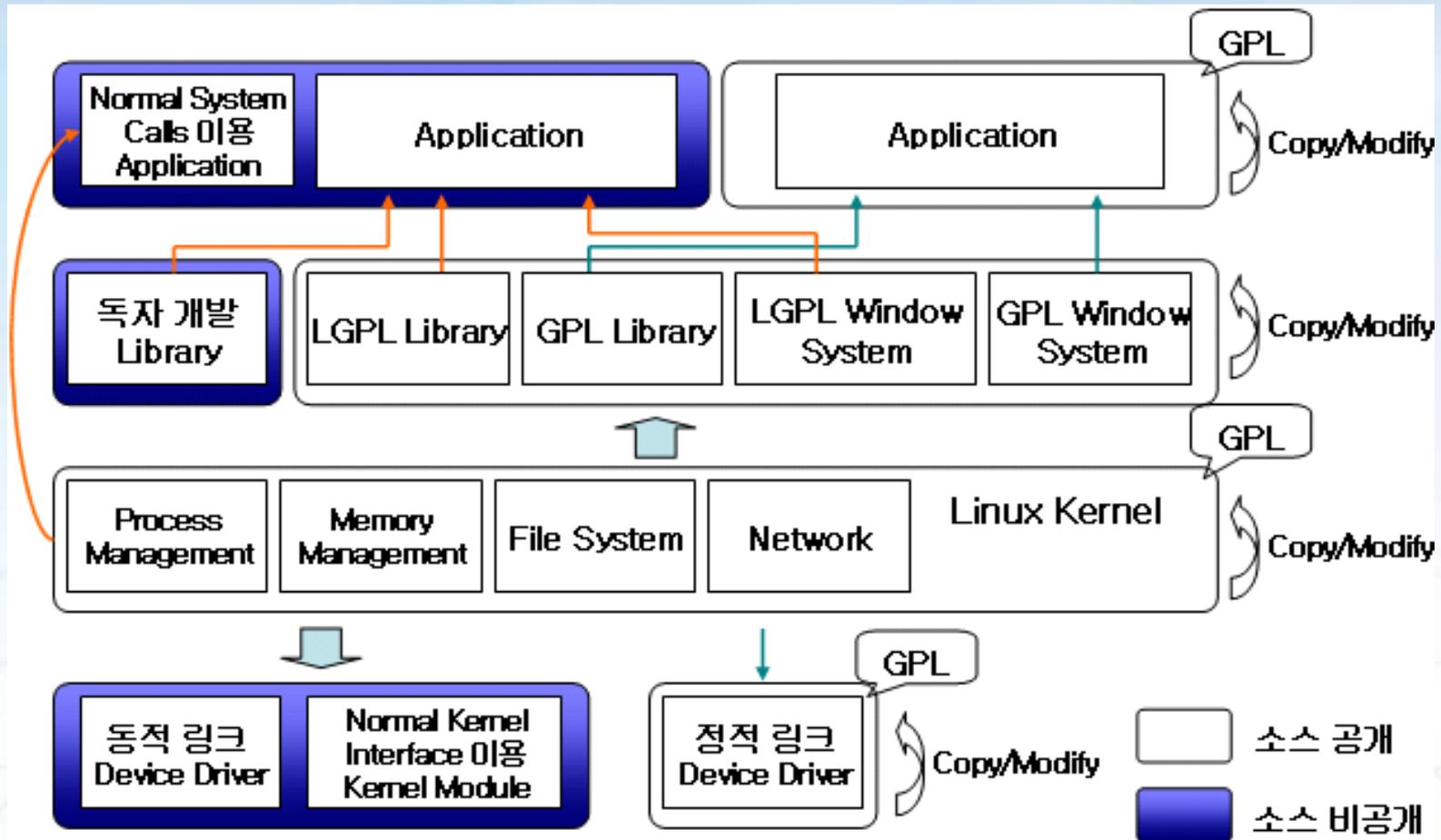
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Summary : linux kernel case



(최민석, 2003)