

***RSJ CD Writer***

***Professional CD and DVD  
recording***

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RSJ Software GmbH



# *Who we are*

- RSJ Software GmbH
- Founded 1985
- CD Writer
- Software Development
  - Point of Sales
  - XML
  - Mostly project based

# *History of RSJ CD Writer*

- Dynamically extended data
- WORM (Write once read multiple)
- CD
- DVD

# *CD / DVD*

- Media
- Formats



# Media

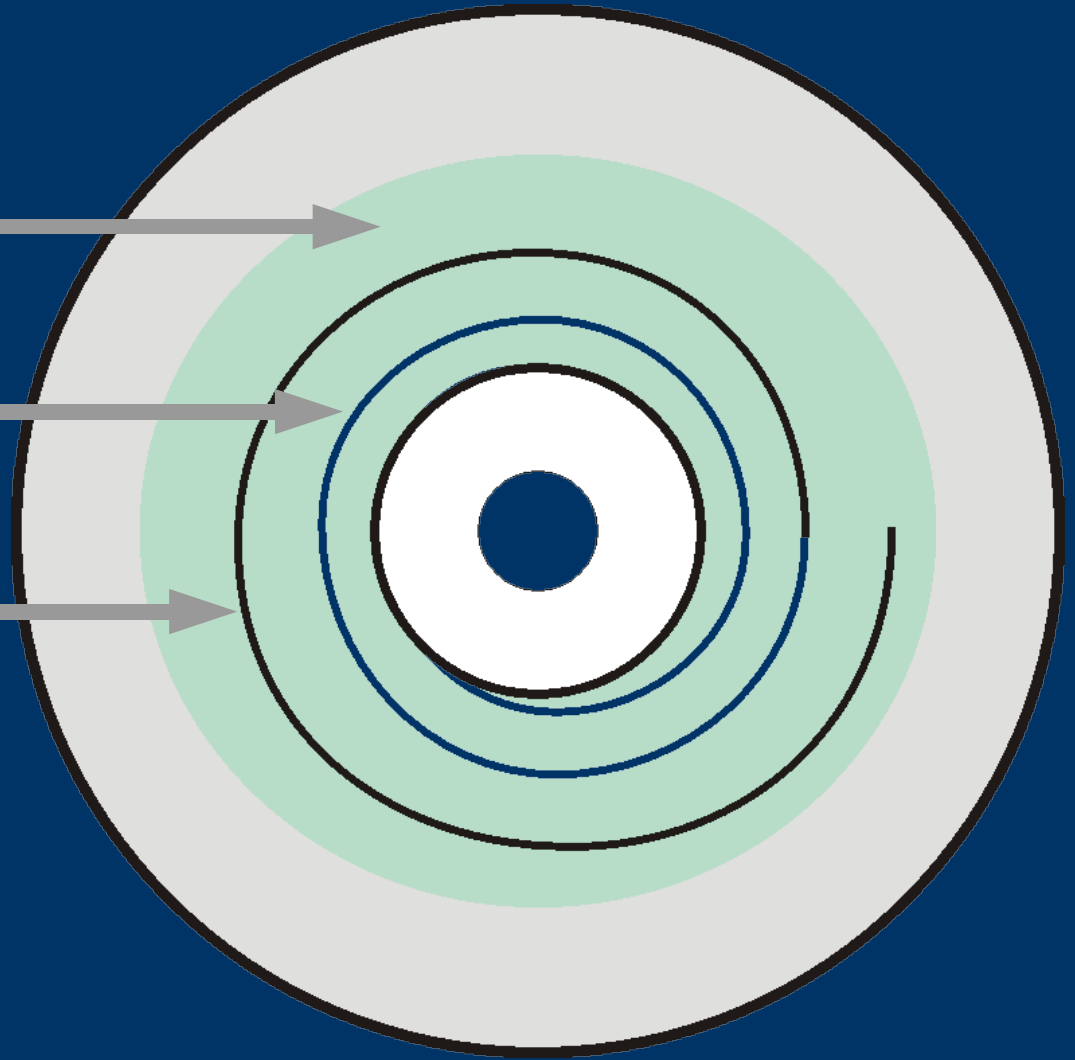
- CD 650 MB – 700 MB
  - CD-R
  - CD-RW
- DVD 4,5 GB
  - DVD-RAM
  - DVD-R
  - DVD-RW
  - DVD+R
  - DVD+RW
  - DVD+R DL (8,5 GB)

# *Tracks & Sessions*

Session #1

Track #1

Track #2



# *Tracks & Sessions*

Session 2	Track n (with Root Directory)
	Track 5 (Data)
	Track 4 (with PVD)
Session 1	Track 3 (with Root Directory)
	Track 2 (Data)
	Track 1 (with PVD)

# *Formats*

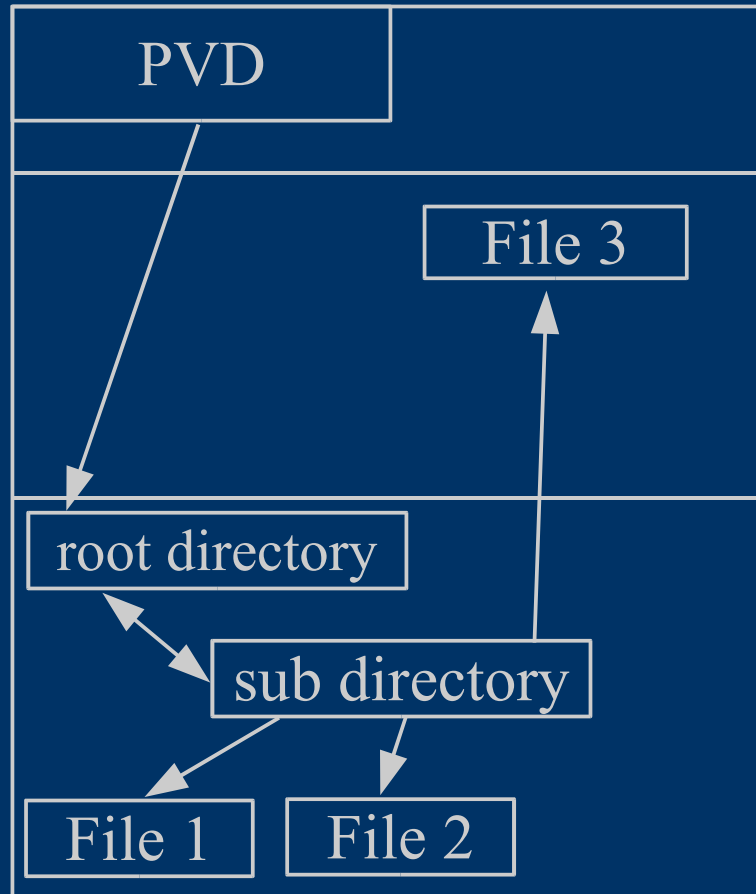
- ISO 9660
  - Rockridge
  - Joliet
- 
- Audio CD
  - Video CD



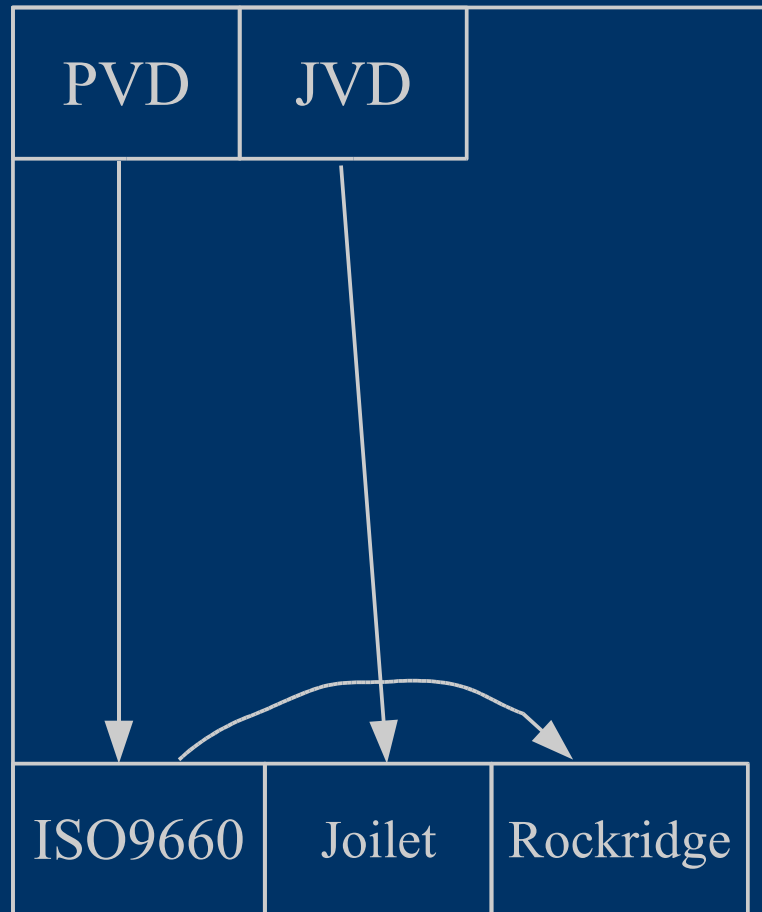
# *ISO 9660 Format*

- Primary Volume Descriptor
- Suplimentary Volume Descriptor
  - Joliet
  - El Torito (Bootable CD)
- Directories
- Path Table
- Files

# ISO 9660 Filesystem



# *Directory Structure*

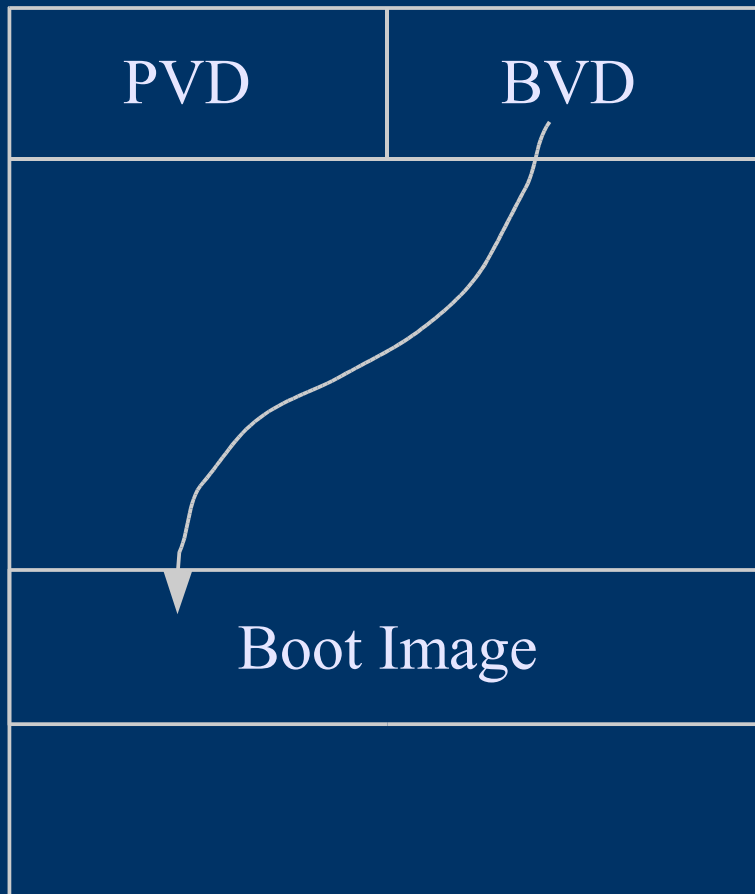


# *Data CD / DVD*

- ISO 9660 Filesystem
- Bootable CD



## ▪ *Bootable CD*



# *Audio CD*

- Track At Once (TAO)
- Disk At Once (DAO)
- FreeDB Title Information
- CDCover
- Ogg Vorbis



# *Track At Once*

- Audio Data
- Sub Channel

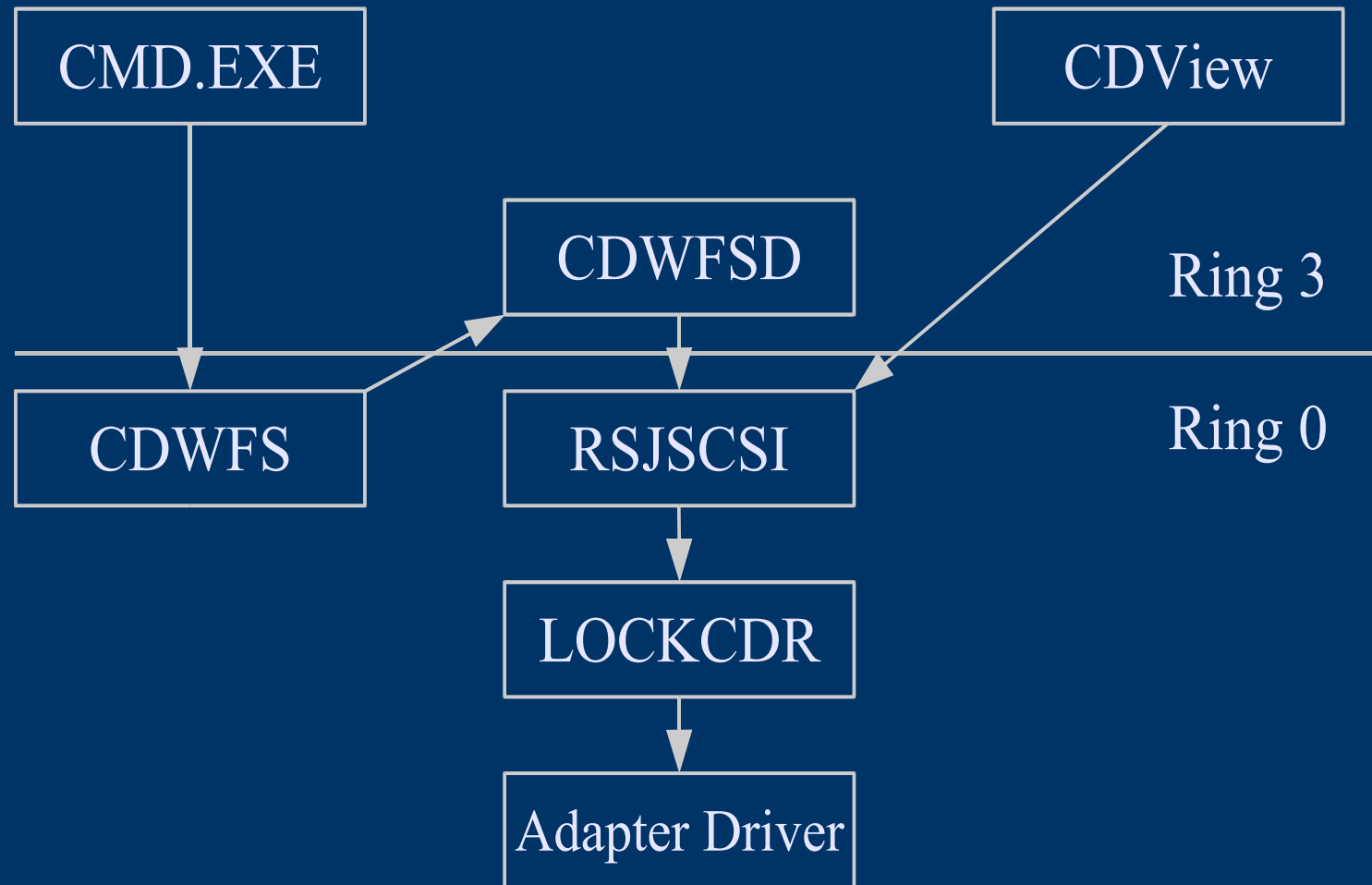


# *Architecture*

- Driver RSJSCSI.SYS
- Filter LOCKCDR.FLT
- Filesystem CDWFS.IFS
- Daemon CDWFSD.EXE
- Process CDATTACH.EXE
- Process CDVIEW.EXE



# Architecture



# *Automation*

- Batch File Programming
- Program Integration
- CID



# *Batch*

- Filesystem
    - `COPY DATA.DAT Z:`
  - CDATTACH
    - `CDATTACH Z:`
    - `CDATTACH Z: -S`
  - TRACKCPY
    - `TRACKCPY -copy c:data.iso cdr: -quit`
    - `TRACKCPY -finalize cdr: -quit`
- 
-

# *Program Integration*

- OS/2 Filesystem API
  - DosOpen()
  - DosRead()
  - DosWrite()
  - DosClose()
- RSJ CD Writer API
  - DosFsAttach()
  - DosFsCtl()
  - CopyToCD()
  - XCopyToCd()

# ***CID Installation***

Command line controlled installation

CDWOS2 /cid /wps /cdwpop



# *Available for multiple Platforms*

- OS/2  
eCS
  - Windows 95  
Windows 98  
Windows Me
  - Windows NT  
Windows 2000  
Windows XP  
Server 2003
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# *Further Information*

- <http://www.rsj.de>

