

DRM schemes

A short history of copy protection

Disclaimer

10. Manual-based copy protection

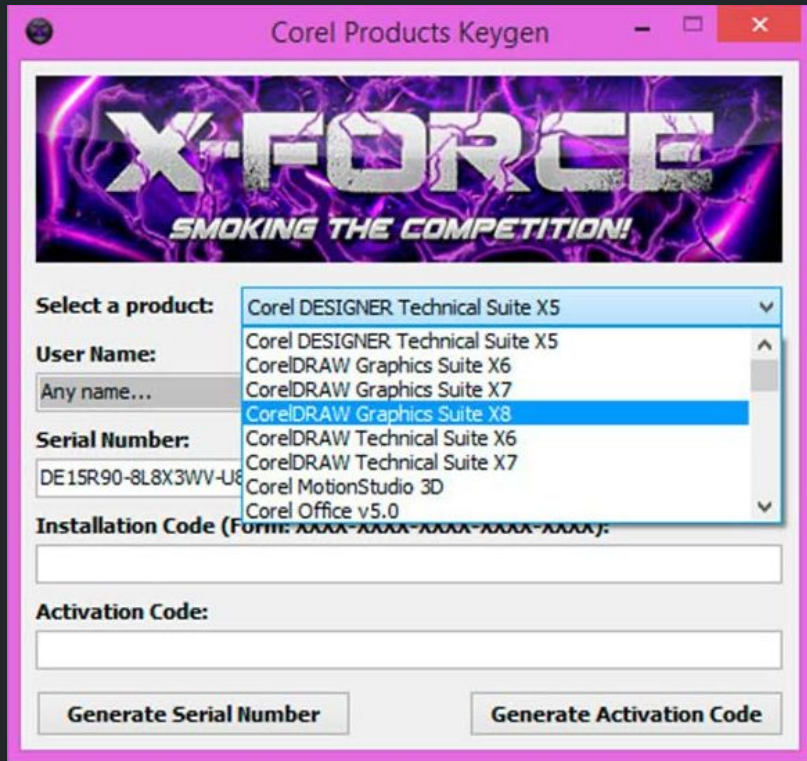






9. Serial keys

FCKGW-RHQQ2-YXRKT-8TG6W-2B7Q8



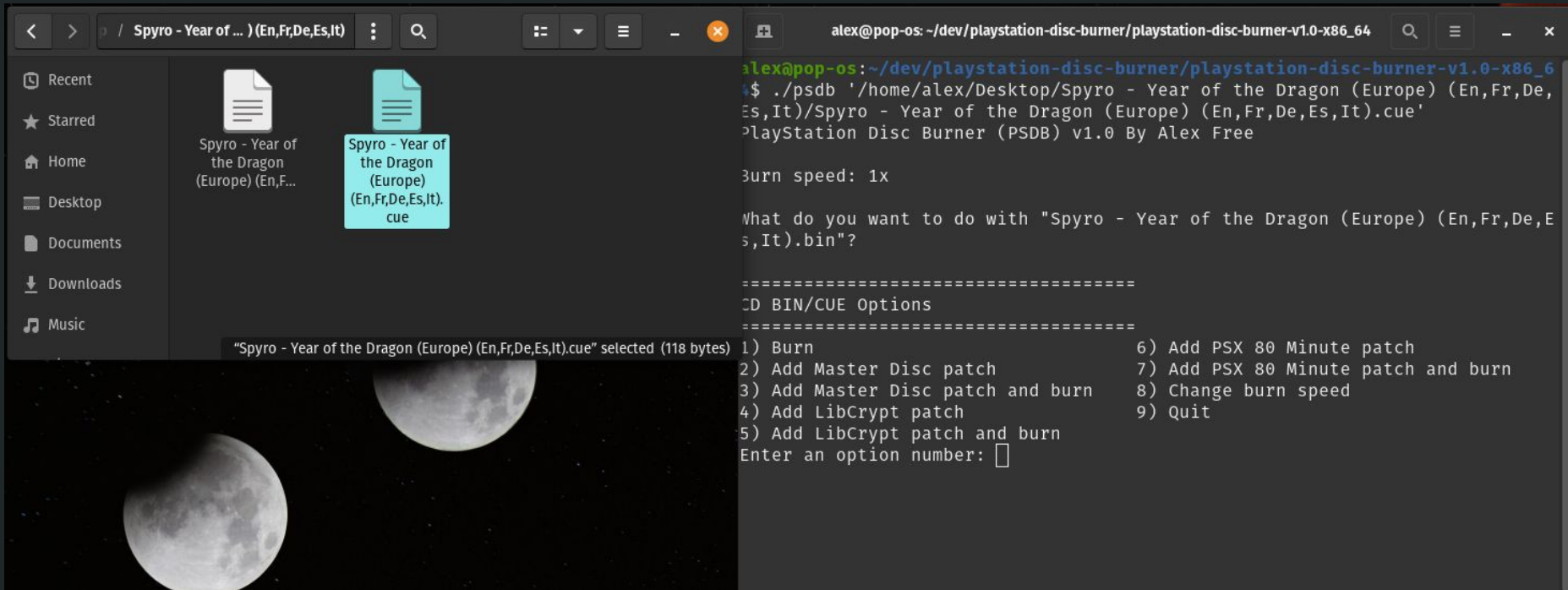
8. PlayStation schemes

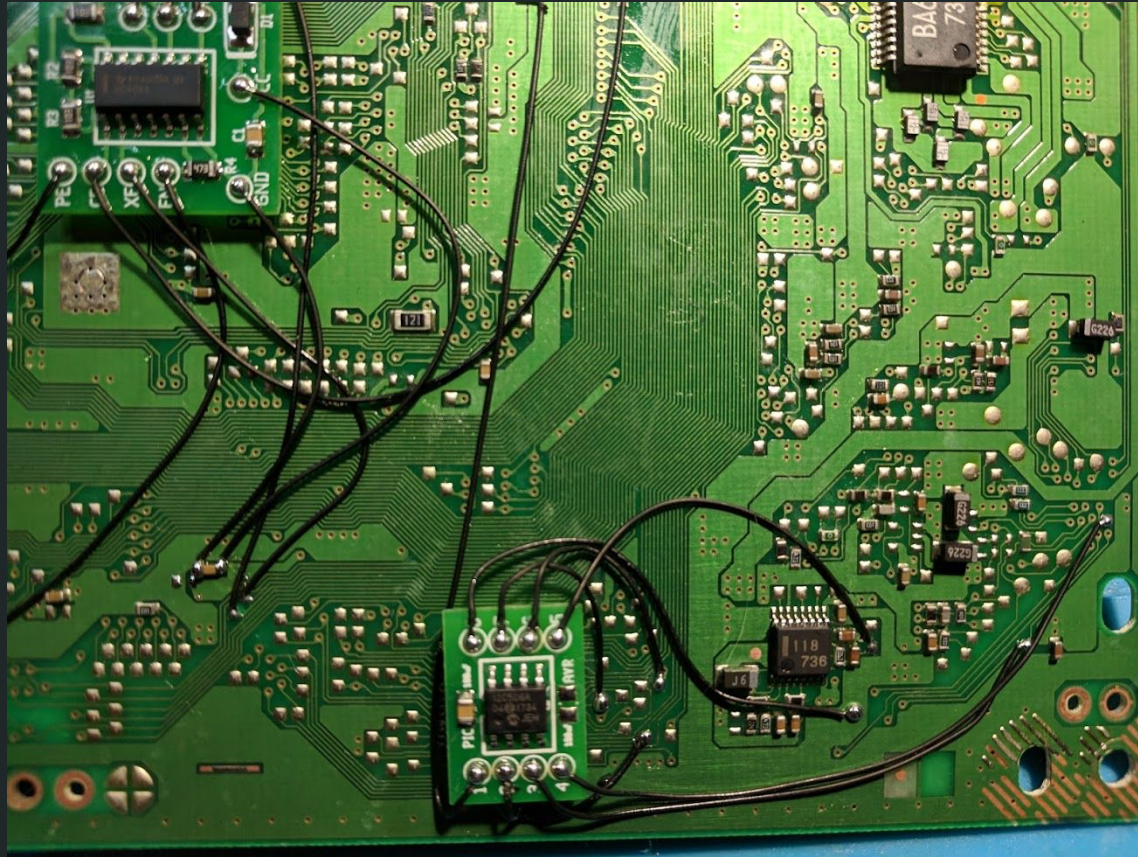
"the wobble"





Libcrypt





7. Break the game



Some companies' DRM is stupidly cruel, punishing only those who have legitimately purchased the game, and not those who pirate it. Well, most companies' DRM is that. [Serious Sam 3](#)'s DRM is brilliantly cruel, punishing only those who pirated it. [By relentlessly pursuing them with a giant invincible armoured scorpion](#). As revealed by [Dark Side Of Gaming](#), only those who unlawfully duplicate the game encounter this immortal enemy, who haunts them from the opening moments. You can see it in action below.

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News by [John Walker](#), Co-founder

Published on Dec. 7, 2011

[179 comments](#)

Game Dev Tycoon forces those who pirate the game to unwittingly fail from piracy

93.6 per cent of players currently running cracked copy.



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News by [Tom Phillips](#) | Editor-in-Chief

Updated on Oct. 17, 2017

190 comments



Game Dev Tycoon adds ultra hard mode where you combat piracy with DRM

See off thieves.



EUROGAMER



News by [Tom Phillips](#) | Editor-in-Chief

Updated on March 9, 2018

14 comments

Advanced Options

Game Length

35 years (recommended) ▾

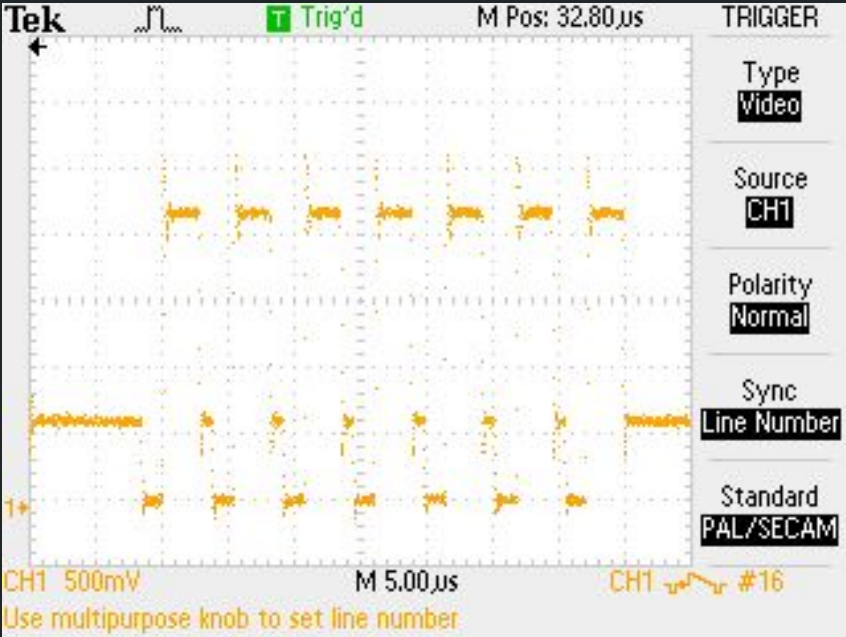
Note: You can always continue playing after the main game is over. The game length simply specifies how fast new platforms come to market and when the high score is calculated.

Pirate Mode

2. On ▾

The pirate mode causes severely reduced sales on all of your games. Bankruptcy is likely. You can develop copy protection but using it will upset fans. 'Fan mail' inspired by true events will reach your inbox from time to time.

6. Macrovision



5. CSS





4. Widevine L3

widevinecdm.dll 4.10.1610.0

int 2D

code obfuscation

```
'FEF03E500C  
'FEF03E500C  
'FEF03E500C 000 48 80 44 24 10      loc_7FEF03E500C:  
'FEF03E500C      mov     rax, [rsp+arg_0]  
'FEF03E5009 000 48 89 BC 87 3F F0 FE 07*mov  rcx, offset sub_7FEF03F07BC  
'FEF03E5009      movnz  rax, rcx  
'FEF03E500F 000 48 0F 45 C1      cnoenvz  rax, rcx  
'FEF03E500F      jmp     sub_7FEF085A204  
'FEF03E500F
```

```
000007FEF03E50A4  
000007FEF03E50A4  
000007FEF03E50A4 000 48 80 64 24 F8      loc_7FEF03E50A4:  
000007FEF03E50A9 000 48 89 2C 24      lea     rsp, [rsp-8]  
000007FEF03E50AD 000 48 8D 2D 26 A4 FD FF  mov     [rsp+0], rbp  
000007FEF03E50B4 000 48 8D 2D 26 A4 FD FF  lea     rbp, loc_7FEF03BF40A  
000007FEF03E50B4 000 48 87 2C 24      xchg    rbp, [rsp+0]  
000007FEF03E50B8 000 48 8D 64 24 08      lea     rsp, [rsp+8]  
000007FEF03E50BD 000 FF 64 24 F8      jmp     [rsp+var_8]  
000007FEF03E50BD
```

```
000007FEF03E50C2  
000007FEF03E50C2  
000007FEF03E50C2 000 E8 09 6C 00 00      loc_7FEF03E50C2:  
000007FEF03E50C2      call    loc_7FEF03EBCD0  
000007FEF03E50C7 000 90      nop  
000007FEF03E50C8 000 EB 84      jmp     short sub_7FEF03E50AE  
000007FEF03E50C8
```

The FSF's focus on TPMs here is not only technically wrong, it's indicative of a failure to understand what's actually happening in the industry.

While the FSF has been focusing on TPMs, GPU vendors have quietly deployed all of this technology without the FSF complaining at all.

Microsoft has enthusiastically participated in making hardware DRM on Windows possible, and user freedoms have suffered as a result, but Playready hardware-based DRM works just fine on hardware that doesn't have a TPM and will continue to do so.

3. Hardware dongles





EastWest CC Plus HD Windows

★★★★★ 9



Installation files only –
no license keys included

\$120

The shipping costs are calculated on the checkout page.

In stock

1



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11

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in External Hard Drives

Need help?





2. Denuvo anti-tamper



Don't call it DRM: what's Denuvo Anti-Tamper?

The forcefield that kept Dragon Age and Lords of the Fallen free from piracy - for a few weeks at least.



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News by [Robert Purchase](#) | Associate Editor

Updated on Dec. 19, 2014

 123 comments

1. A/B variant watermarking