


20.1k star! 太强了，一个浏览器直接能跑20+种操作系统！

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大家好，我是开源君！

平常咱们想体验不同的操作系统，要么找台老古董电脑，要么在现在的电脑上装虚拟机，过程别提多麻烦了。要是想测试一些旧系统上的软件，或者单纯怀旧玩玩老游戏，更是困难重重。

今天开源君要给大家安利一个超级酷炫的开源项目 - **v86**，这个项目简直就是一个浏览器里的时光机，让你瞬间穿越回那些经典的操作系统时代。

项目简介

v86 是个基于 WebAssembly 技术开发的 x86 架构模拟器，就像是在浏览器里搭了一台虚拟的 x86 电脑。它能把 x86 的机器代码即时编译成 WebAssembly 模块，这样在浏览器里也能有不错的性能。支持超多操作系统，像 Linux、Windows 95、Windows 98、MS - DOS 这些，还有好多小众的操作系统也不在话下。而且它还模拟了各种硬件，比如 FPU、IDE 控制器、NE2000 网卡等等，让你在浏览器里也能有接近真实 PC 的体验。

Family: <input checked="" type="checkbox"/> Linux <input checked="" type="checkbox"/> BSD <input checked="" type="checkbox"/> Windows <input checked="" type="checkbox"/> Unix-like <input checked="" type="checkbox"/> DOS <input checked="" type="checkbox"/> Custom <input checked="" type="checkbox"/> Un. <input checked="" type="checkbox"/> Graphical <input checked="" type="checkbox"/> Text Medium: <input checked="" type="checkbox"/> Floppy <input checked="" type="checkbox"/> CD <input checked="" type="checkbox"/> HD Size: <input checked="" type="checkbox"/> 512 B <input checked="" type="checkbox"/> <5 MB <input checked="" type="checkbox"/> >5 MB Status: <input checked="" type="checkbox"/> Modern										
<input checked="" type="checkbox"/> Historic License <input checked="" type="checkbox"/> Open-Source <input checked="" type="checkbox"/> Proprietary Arch: <input checked="" type="checkbox"/> 16-bit <input checked="" type="checkbox"/> 32-bit Lang: <input checked="" type="checkbox"/> ASM <input checked="" type="checkbox"/> C <input checked="" type="checkbox"/> C++ <input checked="" type="checkbox"/> Other										
Skip to custom settings										
Name	Size	UI	Family	Arch	Status	Source	Lang	Medium	Notes	
Android	54+ MB		Linux	32-bit	Modern	Open-source	C++	CD	Android x86 1.6-r2	
Arch Linux	15+ MB		Linux	32-bit	Modern	Open-source	C	9pfs	Various packages, including Xorg, Firefox and more	
Bulldozer Linux	4.9 MB		Linux	32-bit	Modern	Open-source	C	bzimage	Minimal Linux with Lua, ping, curl, telnet	
Damn Small Linux	50 MB		Linux	32-bit	Historic	Open-source	C	CD	4.11.xc2 with Firefox 2.0	
ELKS	1.2 MB		Linux-like	16-bit	Modern	Open-source	C	HD	Linux for 8086	
EndosOS	14 MB		Linux	32-bit	Modern	Open-source	C	bzimage	Linux with nbdjs as /bin/init	
Flck	16 MB		Linux-like	32-bit	Modern	Open-source	C	HD	Tiny Linux Compatible Kernel	
FreeBSD	16+ MB		BSD	32-bit	Modern	Open-source	C	HD	FreeBSD 12.0	
NetBSD	23+ MB		BSD	32-bit	Modern	Open-source	C	HD	NetBSD 4.0 with Xorg	
OpenBSD	11+ MB		BSD	32-bit	Modern	Open-source	C	HD	OpenBSD 6.6	
FixixOS	4.2+ MB		Unix-like	32-bit	Modern	Open-source	C	HD	With Doom	
Minix	30+ MB		Unix-like	32-bit	Modern	Open-source	C	CD	Minix 3.3	
Radonx	31+ MB		Unix-like	32-bit	Modern	Open-source	Rust	HD	A Unix-like microkernel OS written in Rust	
SerenityOS	16+ MB		Unix-like	32-bit	Modern	Open-source	C++	HD	Web browser, various games and demos	
Sortix	67 MB		Unix-like	32-bit	Modern	Open-source	C++	CD	A small self-hosting Unix-like operating system	
Soso	7.6 MB		Unix-like	32-bit	Modern	Open-source	C	CD	A Simple Unix-like operating system	
Syllable	28+ MB		Unix-like	32-bit	Historic	Open-source	C++	HD	A user friendly, POSIX compatible OS	
Unix V7	0.5+ MB		Unix	32-bit	Historic	Proprietary	C	HD		
BeOS 5	34+ MB		BeOS	32-bit	Historic	Proprietary	C++	HD	With Opera 3.62, NetPositive	
Haihu	41+ MB		BeOS	32-bit	Modern	Open-source	C++	HD	Networking (WebPositive), OCaml, 2048, NetHack	
AROS Broadway	25+ MB		AmigaOS	32-bit	Modern	Open-source	C	CD	AmigaOS-like graphical OS	
Icaros Desktop	60+ MB		AmigaOS	32-bit	Modern	Open-source	C	CD	AmigaOS-like graphical OS	
Tiny Aros	17+ MB		AmigaOS	32-bit	Modern	Open-source	C	CD	AmigaOS-like graphical OS	
9front	4.9+ MB		Plan 9	32-bit	Modern	Open-source	C	HD	An actively maintained fork of Plan 9	

9front	4.9+ MB		Plan 9	32-bit	Modern	Open-source	C	HD	An actively maintained fork of Plan 9	
ReactOS	17+ MB		Windows-like	32-bit	Modern	Open-source	C++	HD	QtWeb, LibBreakout2, OpenTTD, Sochs, TCC	
Windows 1.01	0.7 MB		Windows	16-bit	Historic	Proprietary	ASM, C	Floppy	Reversi, Paint	
Windows 2.03	1.8 MB		Windows	16-bit	Historic	Proprietary	ASM, C	HD	Reversi, Paint	
Windows 3.0	6.5 MB		Windows	16-bit	Historic	Proprietary	ASM, C	CD		
Windows 3.1	17 MB		Windows	16-bit	Historic	Proprietary	ASM, C	HD	QBasic, Minesweeper, Solitaire	
Windows 95	19+ MB		Windows	32-bit	Historic	Proprietary	ASM, C	HD	Age of Empires, FASM, POV-Ray, Hoverf	
Windows 98	11+ MB		Windows	32-bit	Historic	Proprietary	ASM, C	HD	FreeCell, Hearts, sheep.exe, IE 5	
Windows ME	14+ MB		Windows	32-bit	Historic	Proprietary	ASM, C	HD	Visual Basic, Office 97	
Windows NT 3.1	18+ MB		Windows	32-bit	Historic	Proprietary	C++	HD		
Windows NT 3.51	28+ MB		Windows	32-bit	Historic	Proprietary	C++	HD	Internet Explorer 3 and Visual FoxPro 3.0	
Windows NT 4.0	16+ MB		Windows	32-bit	Historic	Proprietary	C++	HD		
Windows 2000	21+ MB		Windows	32-bit	Historic	Proprietary	C++	HD	IE 6, K-Meleon, Winamp, Delphi, NetHack and more	
MS-DOS	0.1 MB		DOS	16-bit	Historic	Proprietary	ASM	Floppy		
Exploring IBM	0.1 MB		DOS	16-bit	Historic	Proprietary	ASM	Floppy		
FreeDOS	0.6 MB		DOS	16-bit	Modern	Open-source	ASM, C	Floppy	nasm, vim, debug.com, Rogue, various demos	
FreeGEM	1.6+ MB		DOS	16-bit	Historic	Open-source	ASM, C	HD	Graphical desktop for FreeDOS	
Xcom	1.3 MB		DOS	16-bit	Historic	Open-source	ASM, C	Floppy	Graphical desktop for FreeDOS	
MS-DOS 4	0.5 MB		DOS	16-bit	Historic	Proprietary	ASM	Floppy		
MS-DOS 6.22	2.4+ MB		DOS	16-bit	Historic	Proprietary	ASM	HD	Doom, Sm City, OCaml 1.0, Turbo C and more	
PC-MOS/386	0.7 MB		DOS	32-bit	Historic	Proprietary	ASM, C	Floppy		
PsychDOS	4.6+ MB		DOS	16-bit	Historic	Open-source	ASM	HD		
IEE/OS	0.5 MB		DOS	32-bit	Modern	Open-source	ASM, C	Floppy		
BleskOS	0.2 MB		Custom	32-bit	Modern	Open-source	C	CD		
Blue Jay	83 KB		Custom	16-bit	Modern	Open-source	ASM	Floppy		
BoneOS	3.0 MB		Custom	32-bit	Modern	Open-source	C	CD		
BootChess	4.0 KB		Custom	16-bit	Modern	Open-source	ASM	Floppy	Chess in a bootsector	
CatK	3.2 MB		Custom	32-bit	Modern	Open-source	C	CD		

NewOS	0.6 MB	>..	Custom	32-bit	Modern	Open-source	C++	Floppy	
Nope OS	92 KB	>..	Custom	32-bit	Modern	Open-source	C	CD	
Oberon	1.6 MB	⌂	Custom	32-bit	Historic	Open-source	Oberon	HD	Native Oberon 2.3.6
QNX 4.05	1.4 MB	⌂	Custom	32-bit	Historic	Proprietary	C	Floppy	1999 demo disk
SectorLISP	512 B	>..	Custom	16-bit	Modern	Open-source	ASM	Bootsector	Bootstrapping LISP in a Boot Sector
Skift	44 MB	⌂	Custom	32-bit	Modern	Open-source	C++	CD	A hobby OS built from scratch using C/C++
Snowdrop	0.4 MB	>..	Custom	16-bit	Modern	Open-source	ASM	Floppy	
Sol OS	0.3 MB	⌂	Custom	32-bit	Modern	Proprietary	ASM	Floppy	Simple graphical OS
Still Alive	10 KB	>..	Custom	32-bit	Modern	Open-source	C	Floppy	
TIXFORTH	59 KB	>..	Custom	16-bit	Historic	Open-source	ASM	Floppy	An old school, plain vanilla FORTH system
TetrOS	512 B	>..	Custom	16-bit	Modern	Open-source	ASM	Bootsector	Tetris that fits into the boot sector
ToaruOS	6.3 MB	⌂	Custom	32-bit	Modern	Open-source	C	CD	
bootBASIC	512 B	>..	Custom	16-bit	Modern	Open-source	ASM	Bootsector	A BASIC in 512 bytes of x86 machine code
Pillman	512 B	⌂	Custom	16-bit	Modern	Open-source	ASM	Bootsector	A yellow thing eats pills and is chased by monsters
bootLogo	512 B	>..	Custom	16-bit	Modern	Open-source	ASM	Bootsector	Logo language in 508 bytes
bootRogue	512 B	>..	Custom	16-bit	Modern	Open-source	ASM	Bootsector	a roguelike game that fits in a boot sector
dino	512 B	>..	Custom	16-bit	Modern	Open-source	ASM	Bootsector	Chrome's t-rex based bootsector game
Sanos	0.5 MB	>..	Custom	32-bit	Modern	Open-source	C	HD	
sectorforth	512 B	>..	Custom	16-bit	Modern	Open-source	ASM	Bootsector	sectorforth is a 16-bit x86 Forth
Dancy	1.3 MB	>..	Custom	32-bit	Modern	Open-source	C	CD	Dancy Operating System
CuriOS	6.6 MB	⌂	Custom	32-bit	Modern	Open-source	C	HD	Simple GUI based OS inspired by AmigaOS
OS64	2.2 MB	>..	Custom	32-bit	Modern	Open-source	C	CD	Commodore 64 emulator OS for x86 (slow)

Setup

CD image

选择文件

从磁盘中加载文件

Floppy disk image

选择文件

从磁盘中加载文件

Hard disk image

选择文件

从磁盘中加载文件

Kernel image (bzimage)

选择文件

从磁盘中加载文件

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目前在Github上收获了20.1K star！



性能特色

- 跨平台超方便：不管你用的是 Windows、macOS，还是 Linux，甚至是手机，只要有个现代浏览器，就能玩 v86，完全不受设备系统的限制，主打一个自由自在。
- 保存状态超贴心：玩游戏正到关键时刻，突然有事要忙？别担心！v86 的状态保存功能超给力，能把系统运行状态存成 URL 或者本地文件，下次打开接着玩，就跟没中断过一样。
- 调试工具超强大：对开发者来说，v86 的调试工具简直是福音。能实时查看 CPU 状态、内存数据、磁盘操作，调试遗留系统程序的时候，这些功能简直不要太好用。

快速使用

1、docker 安装法

要是想用 docker 安装，就按下面这几步来：

```
# 克隆代码库
git clone https://github.com/copy/v86.git
cd v86

# 使用Docker构建镜像
docker build -f tools/docker/exec/Dockerfile -t v86:alpine-3.19.

# 启动服务器
docker run -it -p 8000:8000 v86:alpine-3.19
```

然后在浏览器里访问http://localhost:8000，就能开启操作系统体验之旅啦。

2、本地安装法

本地安装的话，先得装上 Node.js 和 npm，接着：

```
# 克隆项目
git clone https://github.com/copy/v86.git
cd v86

# 安装项目依赖
npm install

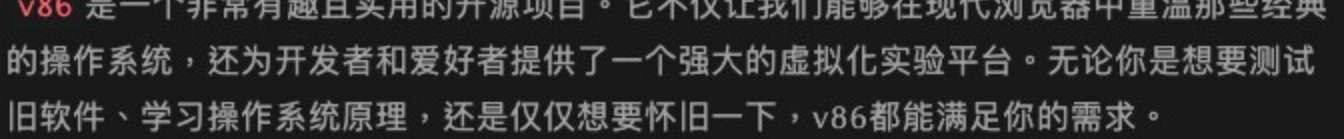
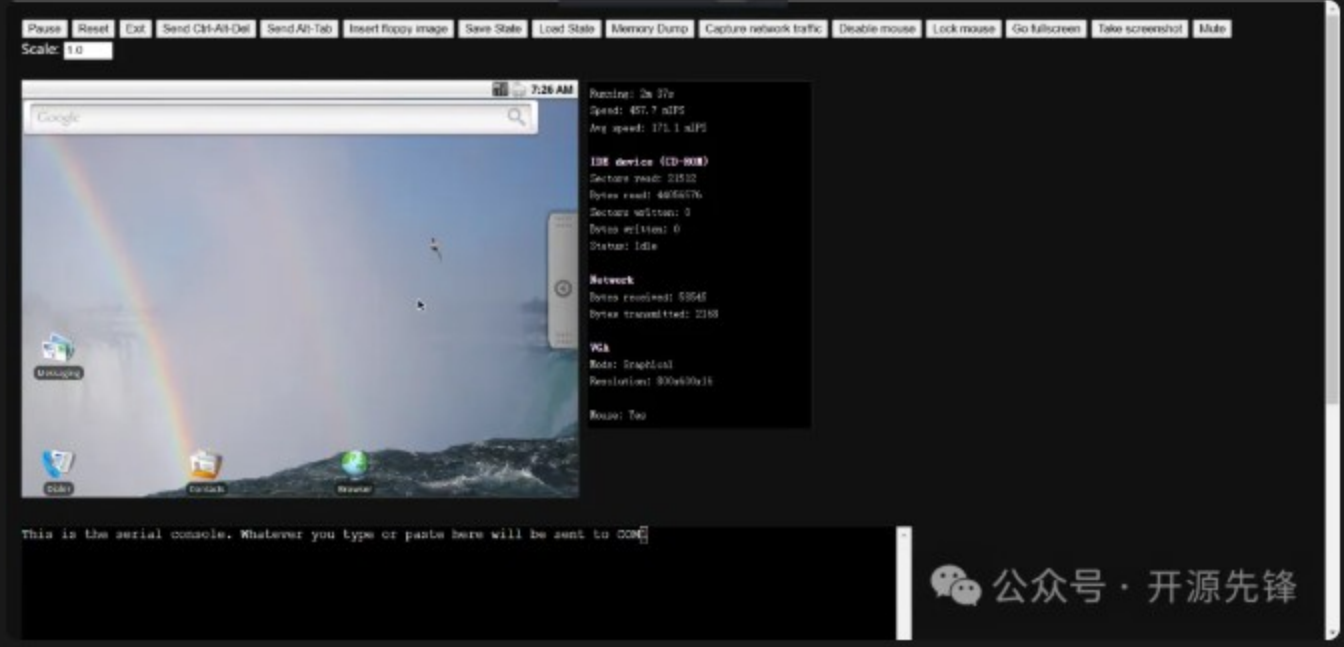
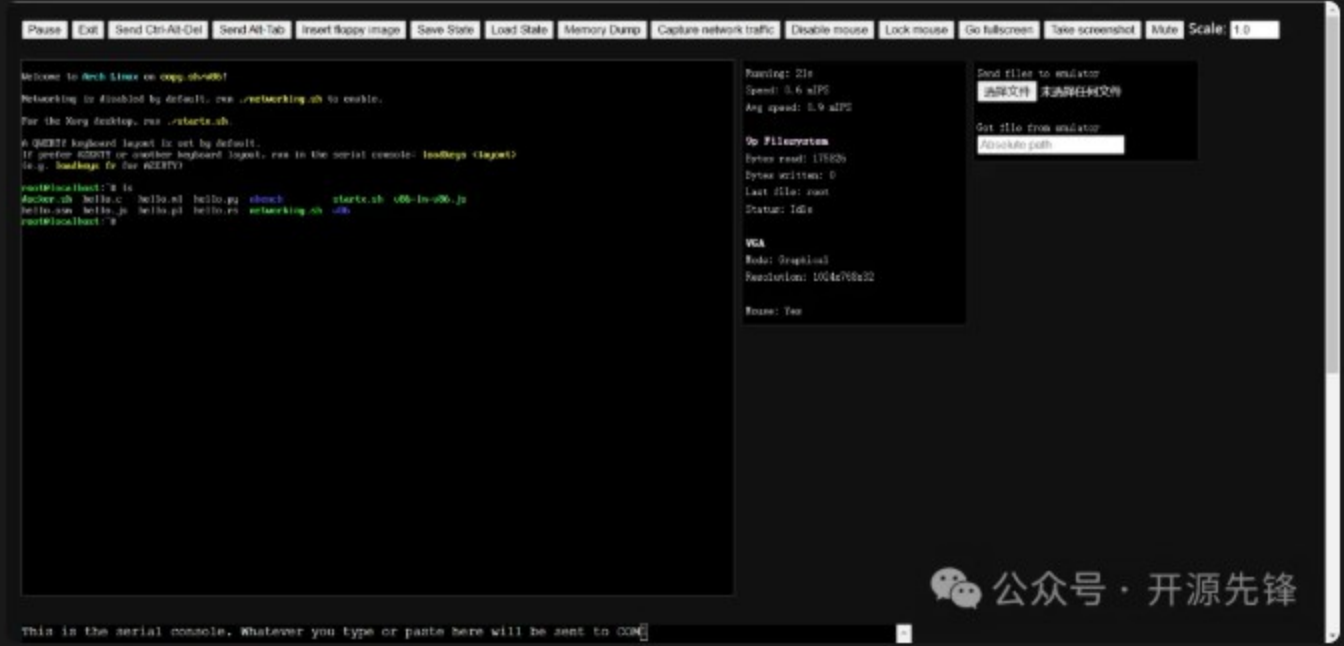
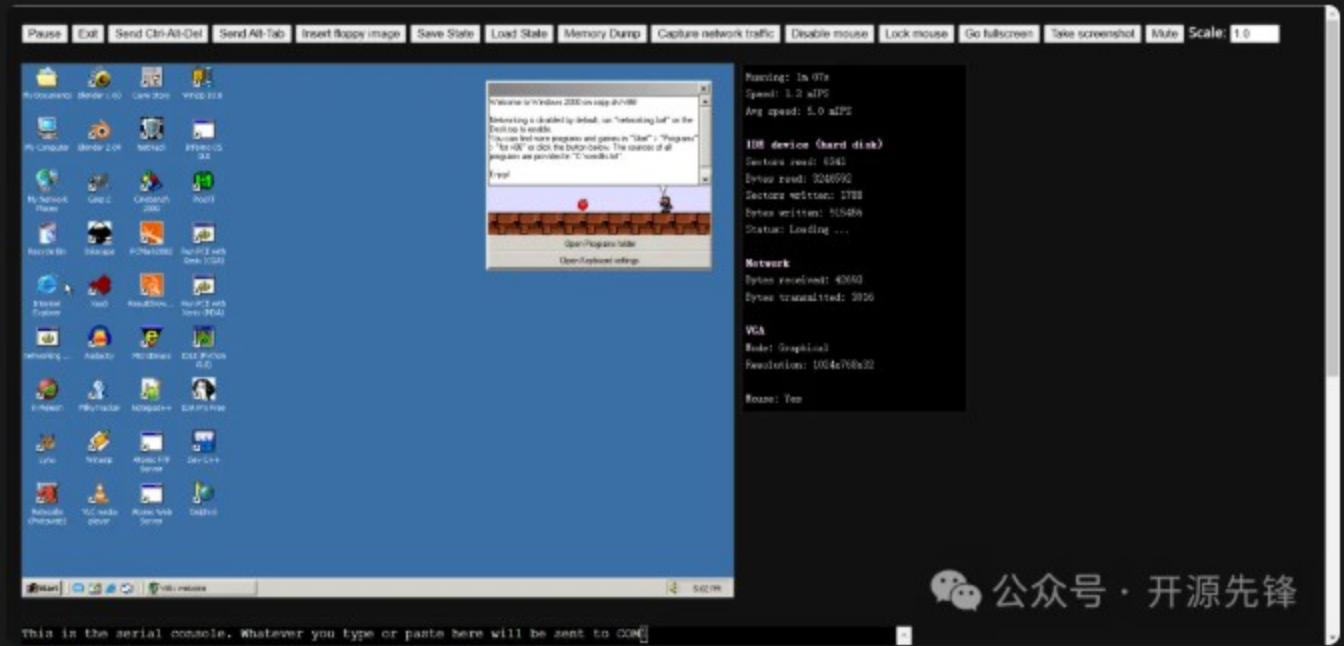
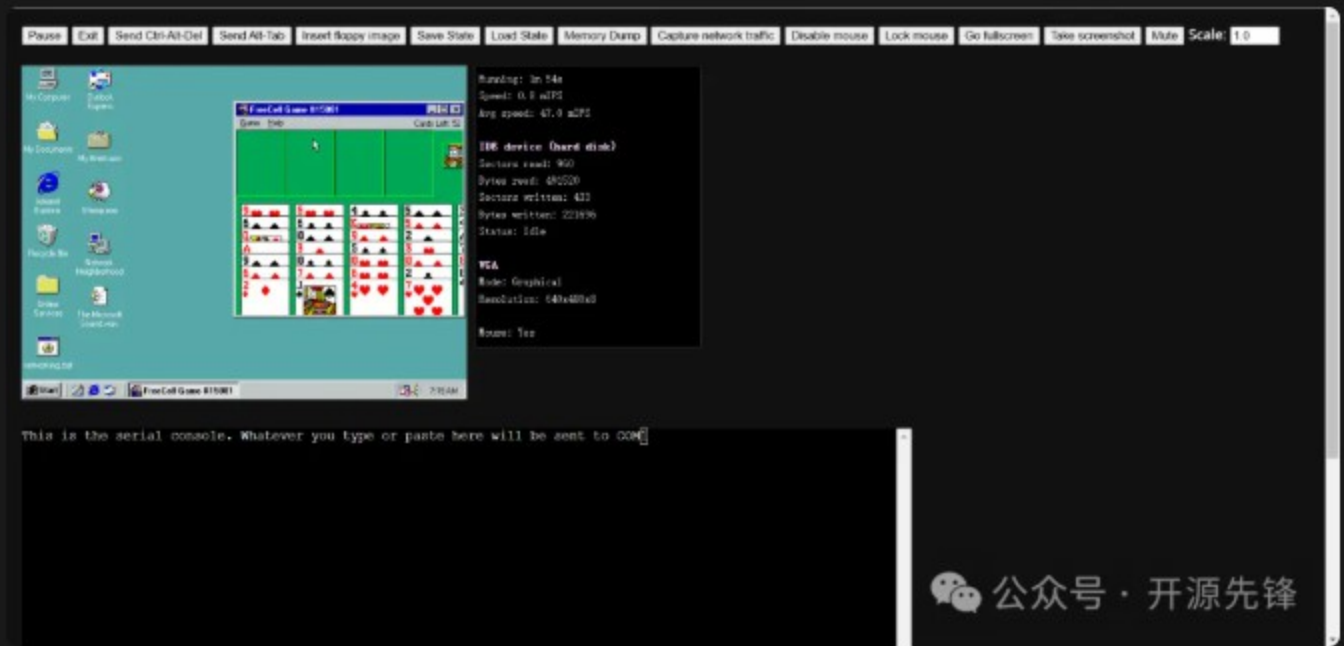
# 启动开发服务器
npm start
```

打开浏览器，访问http://localhost:8080，v86 的界面就出现啦。用 Chrome 或 Firefox 这些对 WebAssembly 支持好的浏览器，体验会更棒。

项目体验展示


体验感简直不要太棒。比如运行Windows 98，界面会提示一个加载进度条，加载完成之后，熟悉的Windows 98界面就出现在眼前了。而且，流畅度完全够用，甚至还能玩一些经典的DOS游戏，这可太有意思了。对于开发者来说，v86提供了一个完整的调试环境，你可以实时查看和分析CPU状态、内存数据、磁盘操作等，调试遗留系统的程序时特别有

用。



更多细节功能，感兴趣的可以到项目地址查看：

项目地址：
<https://github.com/copy/v86>



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3.7K star！鹅厂又一开源力作，高效、易用、扩展性强！