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Subject: Vetusware.com updates: 2022-12-06

Posted by [vetus@vetusware.com](mailto:vetus@vetusware.com) on Tue, 06 Dec 2022 00:00:00 GMT

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#### OPALjr 2.01 2.01

<https://vetusware.com/download/OPALjr%202.01%202.01/?id=17574>

Rare software to convert logical equations to JEDEC-files. These files are necessary to burn PAL- and GAL-chips. With a programmer, someone can change these chips internal logic-gates to design whatever kind of microchip is intended. This software includes two extremely rare tools in addition: a) a program to convert a jedec-file back to a textfile which contains logical equations (JED2EQN.EXE) b) a program to convert PAL-jedecs to GAL-jedecs (PAL2GAL.EXE). OPALjr was the free "light-version" of OPAL. The manual reads: "OPALjr is a functional subset of the full OPAL package. It is designed to: a) provide free low-level entry design support for all NSC low-density PAL and GAL devices b) demonstrate the syntax and capabilities of the full OPAL PLD development software package, including support for higher-density MAPL devices." This kind of software is RARE. The only other programs of this kind are: PALASM and WinCUPL. I downloaded it from:  
<http://www.brouhaha.com/~eric/retrocomputing/mmi/palasm/>

#### PALASM2 2.23 2 2.23

<https://vetusware.com/download/PALASM2%202.23%202%202.23/?id=17576>

Rare software to design microchips and convert logical equations to JEDEC-files. These files are necessary to burn PAL- and GAL-chips. With a programmer, someone can change these chips internal logic-gates to design whatever kind of microchip is intended. The newer version palasm4 1.5 has a completely different user-interface. This version is even harder to get than version 4. It's from the wayback-machine's software-archive. Therefore I don't know if it's virus-free. There are only three programs like palasm: WinCUPL, Opal and Opaljr. Since GAL-chips are not used anymore in industry, there is no new software for them in present time.

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