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Subject: Re: Gryphon 68030

Posted by [Andrew B](#) on Mon, 13 Jun 2016 01:05:33 GMT

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I think it's a good practice to keep 1 type of programmable device per board, so I'd go for 2 MAX 7000S or ATF15xx-type CPLDs replacing the PALs and the remaining glue logic chips. (The Atmel parts tend to be cheaper but the software they provide is not as nice, but the 15xx and 7xxx parts are generally compatible see

<https://www.retrobrewcomputers.org/doku.php?id=builderpages:abingham:cpld-compatibility>.

That way a builder only needs 1 type of programmer.

CPLDs in general seem more reliable because you can buy 1 \$20-\$60 USB programmer and program them on the board with a JTAG header. GALs have several vendors that may or may not work with a given programmer - the Lattice parts and Atmel parts use different programming algorithms for instance and programmer compatibility with the lower-cost programmers and the Atmel parts can be spotty. Also only the Atmel parts are currently in-production which are the harder to program of the two.