

freebsd-arch: Re: __TIME_MIN/__TIME_MAX

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To: "Jacques A. Vidrine" <nectar@FreeBSD.org>

"Jacques A. Vidrine" wrote:

> *In at least one place in libc, it is necessary to range check a time_t*
> *value. On most platforms, time_t has the same range as `int', but*
> *on at least amd64, it has a larger range. Any objections to adding*
> *definitions of __TIME_MIN and __TIME_MAX to sys/\${arch}/_limits.h?*
>
> *I could just do the usual check for lossage after casting, except that*
> *in theory time_t could be a floating-point value (but not in reality*
> *in FreeBSD). It seems cleaner to me to have an explicit range.*

XSI: time_t and clock_t shall be integer or real-floating types.

The range should be derived from th type. Defining separate values outside the implementation namespace might be OK, but keeping those values synchronized with the size_t is likely to be painful for years to come.

— Terry

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