It is known that every non-computably-dominated real must compute a weakly 1-generic real. However, it is known in set theory that several forcing notions such as the rational perfect forcing and the Laver forcing add an unbounded real without adding a Cohen real. By simulating the rational perfect forcing construction over $L_{\omega_1^{CK}}$, the $\omega_1^{CK}$-th rank of Gödel’s constructible universe, we show that there is a non-$\Delta^1_1$-dominated real which hyp-computes only $\Delta^1_1$-trivial reals (hence, hyp-computes no $\Delta^1_1$-generic real). By combining this argument with local Cohen forcing, we also show that the same property holds in the $E_n$-degrees, where $E_0 = 2$ $E$ is Kleene’s normal type 2 functional, and $E_{n+1}$ is the superjump of $E_n$. Moreover, we show that the same property holds in the $\Delta^1_0$-degrees under the projective determinacy.