bool-size^{0,22}

$\mathbb{B}\text{size}(k;f) \ \equiv_{\text{def}}\ \text{primrec}(k;0;\lambda n,m.\ \text{if } f(n)\rightarrow 1 \text{ else } 0 \text{ fi}+m)$

http://www.cs.cornell.edu/Info/Projects/NuPrl/FDLcontent/p0_286125_/p44_768930_{bool-size}.html