ROY T COOK UNIVERSITY OF MINNESOTA – TWIN CITIES, USA COOKX432@UMN.EDU Possible Predicates, Actual Properties, and Hale's Principle Bob Hale has recently defended the legitimacy of second-order logic, and the existence of the properties that fall in the range of second-order quantifiers, via an argument for what I shall call Hale's Principle:

HP: A property P exists if and only if it is possible that there is a predicate " $\Phi(x)$ " such that " $\Phi(x)$ " holds of the Ps.

I will not examine the arguments for and against Hale's Principle, but will instead investigate exactly how much second-order logic one obtains via mobilization of the principle. Obviously, the strength of the second-order logic obtained depends crucially on what predicates one takes to be possible in the relevant sense. It turns out that the assumptions that are required in order to obtain a certain philosophically important sort of categoricity result within second-order logics based on Hale's Principle are both relatively weak and (so I will argue) philosophically plausible – in particular, we need only assume that it is at least (logially) possible to construct countably infinite conjunctions and disjunctions via supertasks.