Kapulkin and Lumsdaine have outlined a specific program by which to precisely state and prove the conjecture that\nintensional type theory is the internal language of higher categories. We build upon their progress on this program by\nestablishing notions of weak equivalence in various categories of models of type theory, and proving that the comparison\nfunctors between these categories of models are Dwyer-Kan equivalences. We show that (the categories of) contextual\ncategories, categories with attributes, comprehension categories, and type-theoretic fibration categories are all equivalent\nin this sense, assuming the existence of \textit{Id}, $\Sigma$ and $\Pi$ types in each of these contexts. (Received August 17, 2017)