

A Correction to T-Premise

Ernest Schimmerling pointed out that our definition of "T-premise" is circular. We begin §1 by defining a ppm as a structure satisfying all the premise axioms except the initial segment condition. Among these axioms is the statement: "Every proper initial segment of N is sound." However, after we have adopted an indexing, we then change the predicates of an active premise $N = \langle J_V^E, F \rangle$ of case 2, replacing it e.g. by $\langle J_V^E, F, \{q_N\} \rangle$, where $q_N \in N$ is a canonically chosen parameter. The soundness of a structure $\langle J_V^E, A_1, \dots, A_m \rangle$ is dependent on the predicates A_1, \dots, A_m , so that a soundness requirement made prior to the indexing is senseless. We should, in fact, require of a ppm M only that it be acceptable and that $M = \langle J_\alpha^E, E_\omega \rangle$, where E codes a

coherent sequence of extenders in the usual way. This suffices for all of the Theorems in §1 and for Lemma 1.1 -

- Lemma 4.4 of §2. Having then defined the indexing and imposed the T-initial segment condition, we can then redefine the notion soundness as meaning soundness wrt. $\langle N, \mathcal{F}_N \rangle$ if N is an active ppm of type 2.

We then, in addition to the initial segment condition impose the further requirement that all proper initial segments be sound.