X be a non-strict p.v.T. Hen UTS construct X which is strict, and such that $X \simeq X'$ as objects of Fun (Mad CT), Set). (X, E) transition isos given. Siren this. (Box care) Start by asking that if M, M2 are not ultrapoducts, (writable as) $\chi'(M, \xrightarrow{f} M_2)$ of $\chi^*(M_1) \xrightarrow{\chi(f)} \chi(M_2)$. IF X' has already been defined on the full subenterpay

C & Mod (T), then extend X' to & the full

L that is an altraproduct of (Indication step) subcategory of Med (T) made of anything that is an attraproduct of Subcatagony of Mode (1)

Hings from C

TX'(Mi)

X'(i+ru Mi)

X'(i+ru Mi)

X'(i+ru Mi)

X'(Nj)

X'(i-ru Nj)

X'(i-ru Nj)

X'(i-ru Nj)

X'(i-ru Nj)

X'(i-ru Nj) where $\bar{\Phi}_{(M;)}$ (resp (N;)) is defined by X (IT M;) where

If M; wes

[OR]

[OR]

[Mi)

[OR]

[Mi)

[M

· Functionality is easy become conjugating by D's cancels at. V • (Note if we did have case and are in second stage, all the primes vanish and $\overline{\Psi}(n_j) = \overline{\Psi}(n_j)$)
• Pre-ultra functionality? $X'(T_{i}M_{i})$ = $T_{i}X'(M_{i})$ $\times'(T_{i}, T_{i})$ $X'(I_{i}uN_{i}) = I_{i}uX'(N_{i})$ $\chi'(iJuf;) = iJu\chi'(f;)?)$ But now it's an easy calculation!! by of Dino X (inti) o Dini) = inux'(fi) by of $\prod_{i \neq u} \sigma_i^N \cdot \underline{F}_{(w_i)} \circ X(i \exists u^{f_i}) \cdot \underline{F}_{(M_i)} \cdot (i \exists u^{\sigma_i^M})^{-1} = i \exists u \times' (f_i)$ by of ToN TXf; (Trum) = inu X'(f;) = TT o'N Xt, o'M'. Last thing to check: all of Mod (T) is rached eventually at some stage in this (translite) induction.