

An improved version of Brian's trans derivation

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trans

- (1) == (cons @ AA:(AA@C:sel) @ intsto @ len @ s1) : ' id
- (2) == app @ [cons @ AA:(AA@C:sel) @ intsto @ len @ s1 , id]
- (3) == app @ [cons @ AA:(AA@C:sel) @ intsto@len@s1 , id] @ for:<Rel,len>
- (4) == app@[cons@AA:(AA@C:sel)@intsto@len@s1@for:<Rel,len>,id@for:<Rel,len>]
- (5) == app@[cons@AA:(AA@C:sel)@intsto@len@s1@for:<Rel,len>,for:<Rel,len>]
- (6) == app@[cons@AA:(AA@C:sel)@intsto@len@Rel@[id,~1],for:<Rel,len>]
- (7) == app @ [cons@AA:(AA@C:sel)@intsto@len@s1 , for:<Rel,len>]
- (8) == app @ [cons@AA:(AA@C:sel)@for:<Ind,id>@len@s1 , for:<Rel,len>]
- (9) == app@[cons@AA:(AA@C:sel)@for:<Ind@[len@s1@Arg,Ind],id@len@s1>,
for:<Rel,len>]
- (10) == app @ [cons@AA:(AA@C:sel)@for:<Ind,id@len@s1> , for:<Rel,len>]
- (11) == app @ [cons@AA:(AA@C:sel)@for:<Ind,len@s1> , for:<Rel,len>]
- (12) == app @ [cons @ for:<AA@C:sel@Ind,len@s1> , for:<Rel,len>]

At this point the derivation degenerated to the object level.

Instead, the app @ [cons @ f , g] == AA:app @ distr @ [f , g]
should have been used.

- (13) == AA:app @ distr @ [for:<AA@C:sel@Ind,len@s1> , for:<Rel,len>]
- (14) == AA:app @ for:< [AA@C:sel@Ind , for:<Rel,len>@Arg] , len@s1 >
- (15) == for:< app @ [AA@C:sel@Ind , for:<Rel,len>@Arg] , len@s1 >
- (16) == for:< AA:app @ dist1 @ [C:sel@Ind , for:<Rel,len>@Arg] , len@s1 >
- (17) == for:< AA:app @ dist1 @
[C:sel@Ind , for:<Rel@[Arg_2,Ind_1],len@Arg_1>] , len@s1 >
- (18) == for:< AA:app @
for:< [C:sel@Ind_2 , Rel@[Arg_2,Ind_1]],len@Arg_1>] , len@s1 >
- (19) == for:<
for:< app @ [C:sel@Ind_2 , Rel@[Arg_2,Ind_1]],len@Arg_1>] ,