DERIVATION in the CONSTRUCTION LABELING SYSTEM

Continuing from:  
*Studies in the Languages of the Volta Basin 6. Part 3*

**IDENTIFYING VERB CONSTRUCTIONS CROSS-LINGUISTICALLY**, by
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*Derived valencies*

Below are labels reflecting derivational/operational history (like Passive, Applicative, Causative, etc.). In the explanation, ‘<’ means “applying before”. The labels ‘unwrap’ the derivational history, starting with a symbol for the actual valence, then a symbol for the ‘last’ derivational process leading up to this valence, then the ‘second last’ derivational process, and so forth. See end of section IIC for a corresponding annotation relative to the grammatical functions involved.

\[
\begin{align*}
\text{intrPs} &= \text{intransitive resulting from Passive; root transitive} \\
\text{intrPsAp} &= \text{intransitive resulting from Passive following Applicative (A<P; root intransitive)} \\
\text{intrPsCs} &= \text{intransitive resulting from Passive following Causativization (C<P; root intransitive)} \\
\text{intrRF} &= \text{intransitive resulting from Reflexivization; root transitive} \\
\text{intrRp} &= \text{intransitive resulting from Reciprocization; root transitive} \\
\text{intrSt} &= \text{intransitive resulting from Stativization; root transitive} \\
\text{intrOblPsCs} &= \text{intransitive oblique resulting from Passive following Causativization (C<P; root intransitive)} \\
\text{trAp} &= \text{transitive resulting from Applicative; root intransitive} \\
\text{trCs} &= \text{transitive resulting from Causativization; root intransitive} \\
\text{trApCs} &= \text{transitive resulting from Applicative following Causativization (C<A; root intransitive)} \\
\text{trPsAp} &= \text{transitive resulting from Passive following Applicative (A<P; root transitive)} \\
\text{trPsCs} &= \text{transitive resulting from Passive following Causativization (C<P; root transitive)} \\
\text{trPsApCs} &= \text{transitive resulting from Passive following Applicative following Causation (C<A<P; root intransitive)} \\
\text{trRf} &= \text{transitive resulting from Reflexivization; root ditransitive} \\
\text{trRfAp} &= \text{transitive resulting from Reflexivization following Applicative (A<Rf; root transitive)} \\
\text{trRfApCs} &= \text{transitive resulting from Reflexivization following Applicative following Causation (C<A<Rf; root transitive)} \\
\text{trRp} &= \text{transitive resulting from Reciprocization; root ditransitive} \\
\text{trRpAp} &= \text{transitive resulting from Reciprocization following Applicative (A<Rp; root transitive)} \\
\text{trRpApCs} &= \text{transitive resulting from Reciprocization following Applicative following Causation (C<A<Rp; root intransitive)} \\
\text{trOblCs} &= \text{transitive oblique resulting from Causativization; root transitive} \\
\text{ditrAp} &= \text{ditransitive resulting from Applicative; root transitive} \\
\text{ditrCs} &= \text{ditransitive resulting from Causativization; root transitive} \\
\text{ditrPsCs} &= \text{ditransitive resulting from Passive following Causativization (C<P; root ditransitive)} \\
\text{ditrPsApCs} &= \text{ditransitive resulting from Passive following Applicative following Causation (C<A<P; root transitive)} \\
\text{ditrOblCs} &= \text{ditransitive oblique resulting from Causativization; root ditransitive} \\
\text{ditrOblApCs} &= \text{ditransitive resulting from Applicative following Causativization (C<A; root transitive)} \\
\text{tritrAp} &= \text{tritransitive resulting from Applicative; root ditransitive} \\
\text{tritrCs} &= \text{tritransitive resulting from Causativization; root ditransitive} \\
\text{tritrApCs} &= \text{tritransitive resulting from Applicative following Causativization (C<A; root transitive)} \\
\text{tritrPsCs} &= \text{tritransitive resulting from Passive following Causativization (C<P; root ditransitive)}
\end{align*}
\]
tritrPsApCs = tritransitive resulting from Passive following Applicative following Causativization (C<A<P; root ditransitive)
qtrApCs = quatrotransitive resulting from Applicative following Causativization (C<A; root ditransitive)
dbobAp = ditrAp = double-object resulting from Applicative; root transitive
dbobCs = ditrCs = double-object resulting from Causativization; root transitive
dbobPsCs = ditrPsCs = double-object resulting from Passive following Causativization (C<P; root ditransitive)
dbobPsApCs = ditrPsApCs = double-object resulting from Passive following Applicative following Causation (C<A<P; root transitive)
dbobOblCs = ditrOblCs = double-object oblique resulting from Causativization; root ditransitive
dbobOblApCs = ditrOblApCs = double-object resulting from Applicative following Causativization (C<A; root transitive)

Derivational (operational) specifications of constituents
These specifications trace the derivational history of a GF, in a way similar to ‘chains’ in GB and Relational Grammar.

For effects of Morphological causativization:
obCsu = ob which would have been su relative to input of Causative formation
obCob = ob which would have been ob relative to input of Causative formation
obCob2 = ob which would have been ob2 relative to input of Causative formation
obCiob = ob which would have been iob relative to input of Causative formation
obCobl = ob which would have been obl relative to input of Causative formation
ob2Csu = ob2 which would have been su relative to input of Causative formation
ob2Cob = ob2 which would have been ob relative to input of Causative formation
ob2Cob2 = ob2 which would have been ob2 relative to input of Causative formation
ob2Cobl = ob2 which would have been obl relative to input of Causative formation
iobCsu = iob which would have been su relative to input of Causative formation
iobCob = iob which would have been ob relative to input of Causative formation
iobCiob = iob which would have been iob relative to input of Causative formation
iobCobl = iob which would have been obl relative to input of Causative formation
oblCsu = obl which would have been su relative to input of Causative formation
oblCob = obl which would have been ob relative to input of Causative formation
oblCob2 = obl which would have been ob2 relative to input of Causative formation
oblCiob = obl which would have been iob relative to input of Causative formation
oblCobl = obl which would have been obl relative to input of Causative formation
For the promotional part of *Passive formation*:

\[ suPob = su \] which would have been *ob* relative to *input of Passive formation*

\[ suPob2 = su \] which would have been *ob2* relative to *input of Passive formation*

\[ suPib = su \] which would have been *iob* relative to *input of Passive formation*

\[ suPobl = su \] which would have been *obl* relative to *input of Passive formation*

For the promotional part of *Stative formation*:

\[ suSob = su \] which would have been *ob* relative to *input of Stative formation*

For the promotional part of *Middle formation*:

\[ suMob = su \] which would have been *ob* relative to *input of Middle formation*

For the promotional part of *Applicative formation*:

\[ obAobl = ob \] which would have been *obl* relative to *input of Applicative formation*

\[ iobAobl = iob \] which would have been *obl* relative to *input of Applicative formation*

\[ ob2Aobl = ob2 \] which would have been *obl* relative to *input of Applicative formation*

‘Repercussion’ effects:

\[ obUob2 = ob \] ‘up from’ *ob2* (because old *ob* has disappeared (promoted, deleted,...))

\[ ob2Uob3 = ob2 \] ‘up from’ *ob3* (because old *ob2* has disappeared)

\[ ob3Uob4 = ob3 \] ‘up from’ *ob4* (because old *ob3* has disappeared)

\[ ob2Dob = ob2 \] ‘down from’ *ob* (because a new *ob* has appeared)

\[ ob3Dob2 = ob3 \] ‘down from’ *ob2* (because a new *ob2* has appeared)

\[ ob4Dob3 = ob4 \] ‘down from’ *ob3* (because a new *ob3* has appeared)

‘Absorption’ effects:

\[ nilRob = ob \] is ‘absorbed’ through Reflexivization

\[ nilRPob = ob \] is ‘absorbed’ through Reciprocization

Effects of iteration of derivation (one operation having applied to the output of another):

\[ suPobCsu = su \] which would have been *ob* relative to *input of Passive formation*, where this *ob* would have been *su* relative to *input of Causative formation*

\[ suPobCob = su \] which would have been *ob* relative to *input of Passive formation*, where this *ob* would have been *ob* relative to *input of Causative formation*

\[ suPobCob2 = su \] which would have been *ob* relative to *input of Passive formation*, where this *ob* would have been *ob2* relative to *input of Causative formation*

\[ suPobCiob = su \] which would have been *ob* relative to *input of Passive formation*, where this *ob* would have been *iob* relative to *input of Causative formation*

\[ suPobCob1 = su \] which would have been *ob* relative to *input of Passive formation*, where this *ob* would have been *obl* relative to *input of Causative formation*

\[ suPob2Csu = su \] which would have been *ob2* relative to *input of Passive formation*, where this *ob2* would have been *su* relative to *input of Causative formation*

\[ suPob2Cob = su \] which would have been *ob2* relative to *input of Passive formation*, where this *ob2* would have been *ob* relative to *input of Causative formation*

\[ suPob2Cob2 = su \] which would have been *ob2* relative to *input of Passive formation*, where this *ob2* would have been *ob2* relative to *input of Causative formation*

\[ suPob2Ciob = su \] which would have been *ob2* relative to *input of Passive formation*, where this *ob2* would have been *iob* relative to *input of Causative formation*

\[ suPob2Cob1 = su \] which would have been *ob2* relative to *input of Passive formation*, where this *ob2* would have been *obl* relative to *input of Causative formation*
suPiobCsu = su which would have been iob relative to input of Passive formation, where this iob would have been su relative to input of Causative formation

suPiobCob = su which would have been iob relative to input of Passive formation, where this iob would have been ob relative to input of Causative formation

suPiobCob2 = su which would have been iob relative to input of Passive formation, where this iob would have been ob2 relative to input of Causative formation

suPiobCiob = su which would have been iob relative to input of Causative formation, where this iob would have been iob relative to input of Passive formation

suPiobCobl = su which would have been iob relative to input of Passive formation, where this iob would have been obl relative to input of Causative formation

suPoblCsu = su which would have been obl relative to input of Passive formation, where this obl would have been su relative to input of Causative formation

suPoblCob = su which would have been obl relative to input of Passive formation, where this obl would have been ob relative to input of Causative formation

suPoblCob2 = su which would have been obl relative to input of Passive formation, where this obl would have been ob2 relative to input of Causative formation

suPoblCiob = su which would have been obl relative to input of Causative formation, where this obl would have been iob relative to input of Passive formation

suPoblCobl = su which would have been obl relative to input of Causative formation, where this obl would have been obl relative to input of Passive formation

suPoblAobl = su which would have been ob relative to input of Passive formation, where this ob would have been obl relative to input of Applicative formation

suPobl2Aobl = su which would have been ob2 relative to input of Passive formation, where this ob2 would have been obl relative to input of Applicative formation

suPiobAobl = su which would have been iob relative to input of Passive formation, where this iob would have been obl relative to input of Applicative formation

suRAISsuMob = subject is raised from subject, and before that promoted thereto from object by Middle Formation

obRAISsuMob = object is raised from subject, and before that promoted thereto from object by Middle Formation