

Valency-Increasing Verbal Derivational Devices in Oromo

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Abstract— In our paper, valency-increasing derivational devices of verbs in Oromo, a language of the Lowland East Cushitic family, are discussed. The first valency-increasing devices are the causatives deriving from verbal stems and causatives of transitivizing denominative and deadjectival verbalizing suffix. The second one is the applicatives through dative markers. The main research question which lies behind my study is whether verbs derived by means of a derivational marker, for instance, causatives and applicatives act in the course of other valency-changing operations differently from non-derived verbs. The verb derivation in Oromo has some typologically peculiar properties, the main one being that the morphological derivation distinguishes more specific classes than the purely lexical one. In other words, the fact that why a verb is derived for change of valency and how it is derived is crucial for its behavior. The language-specific properties of Oromo are also typologically relevant. They show that derived verbs and derivational mechanisms are of particular relevance in verb classification and should be given attention in linguistic work on change of valency.

Index Terms— valency; argument; valency increase; basic verbs; derived verbs; valency-changing verb derivational devices; causative; applicative; transitivization; denominative/deadjectival transitivizing morphemes



1 INTRODUCTION

In this paper, we discuss valency-changing operations in Oromo language (Afaan Oromoo), a polysynthetic language of the Lowland East Cushitic. We will show that Oromo is a strongly valency-increasing language which has many possibilities of adding arguments to the subcategorization frame of a predicate. Despite this, the language seemingly has several valency-decreasing operations which could be regarded as eliminating some of the arguments when deriving intransitive verbs from transitive verbs. Thus, on a closer inspection these operations are found to be necessarily valency and transitivity changing devices. Hence, Oromo shows that valency-changing mechanism should mainly be tied with changing transitivity, as sometimes proposed, either implicitly or explicitly [1]. The structure of the paper is as follows. In Section 2 we provide general background on Oromo. Section 3 describes the main valency-increasing operations found in the language. In Section 4 we discuss operations which look as valency-decreasing, namely applicatives and causatives. The last section presents conclusion.

2. VALENCY AND OROMO VERBAL DERIVATION

The basic assumption of valency theory starts with the verb which occupies a central position in the sentence because the verb determines how many its elements have to occur in order to form a grammatically correct sentence [2] & [3]. Thus, valency argumentation patterns primarily represent syntactic patterning, i.e. the language-specific grammar (or local grammar) of words. However, arguments also have semantic functions, since valency is not to be seen simply as a 'slot-and-filler' theory [4], semantic valency does not simply describe syntactic category slots which can be filled by any lexical item of this category. Valency theory is thus ideally suited to explore the lexis-grammar continuum in linguistic investigations. Maybe because of this dual aspect, Allerton [5] forecasts valency grammar may likely be an upsurge of interest of linguists in the next few years.

Valency theory is generally attributed to the French linguist Lucien Tesnière. Tesnière [6] transferred the idea of valency connections in chemistry to the arguments structure in a sentence. The concept of valency of a chemical element's capacity to combine with a fixed number of atoms of another element is similarly used by Tesnière to introduce the term 'valency' and to theorize its concept in the property of words as a syntactic element to combine with another element to form a phrase and a sentence [3]. Therefore, valency theory is based on dependency relations, where the concern of linguistic investigation is the sentence.

Sentences are described as organized structures consisting of words [7]. Words do not occur randomly in a sentence but form connections, i.e. words are in relationship with other words syntactically or semantically. Structurally connections are ranked in one of two ways: regent or dependent. Regents govern other words, while dependents are governed by another word. Every group, phrase and clause can have only one regent, but several dependents [3]. Allerton [3] (ibid. p 307)

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am-uu or **dab-f-am-uu* is weird to accept. Consider the following list of verbs in which *-č-* and *-f-* are used in their causativised and passivised forms in Table 1:

Base verbs		Causatives		Passives	
(1) a. <i>bul-uu</i>	'to pass a night'	<i>bul-č-uu</i>	'to make pass a night'	<i>bul-f-am-uu</i>	'to be made pass a night'
b. <i>ool-uu</i>	'to pass day'	<i>ool-č-uu</i>	'to make pass a day'	<i>ool-f-am-uu</i>	'to be made to pass a day'
c. <i>gal-uu</i>	'to go home'	<i>gal-č-uu</i>	'to make go home'	<i>gal-f-am-uu</i>	'to be made go home'
d. <i>bah-uu</i>	'to get out'	<i>baa-s-uu</i>	'to take out'	<i>baa-f-am-uu</i>	'to be made get out'
e. <i>deem-uu</i>	'to go'	<i>deem-sis-uu</i>	'to cause to go'	<i>deem-sif-am-uu</i>	'to be caused to go'
f. <i>arg-at-uu</i>	'to find'	<i>arg-ač-čiiis-uu</i>	'to cause to find'	<i>arg-ač-čiiif-am-uu</i>	'to be caused to find'

Table 1: The *-č* and *-f* allomorphs of the morpheme *-s* suffix in causative and passivised causative

The CS1 (single causative) verbs are derived from base and derived verbal stems, base adjectival stems and idiophone stems. The verbs used for single causative derivation are simple stative intransitives and inchoatives (derived stative intransitives). Some nominal, adjectival and uncategorized base stems (BS) which express a stative notion can occur with *-s-* suffix for causative derivation. However, most of the nominal and adjectival base stems are primarily derived as inchoative verbs. The ideophones are basically reduplicated base stems derived as CS1 to form usually de-transitivised ideophonic verbs. The following Table (2) shows the types underlying stems for CS1 derivation.

No.	Types of underlying stems	Derived single causatives (CS1 pattern)
1.	Verbal BS	<i>čab-s-uu</i>
2.	Nominal BS	<i>dubb-i-s-uu</i>
3.	Adjectival BS	<i>furd-i-s-uu</i>
4.	Frozen BS	<i>uff-i-s-uu</i>
5.	Idiophone BS	<i>himim-s-uu, barr-s-uu</i>
6.	Inchoative AHIS	<i>oll-oom-s-uu</i>
7.	Inchoative ATIS	<i>d'eer-es-s-uu</i>
8.	Inchoative OMIS	<i>beel-es-s-uu</i>
9.	Verbal BS	<i>čab-s-uu</i>

Table 2: Single causative verb stem derivational pattern CS1

Verbs that occur with *-s-* are predominantly stative (and some non-stative) intransitives and derived inchoatives. The non-verbal base stems used for CS1 derivation include word classes of stative adjective, nouns and uncategorized word-roots, and idiophone stems. Therefore, in the CS1 pattern, *-s-*

suffix is not only a transitiviser of the intransitives but also a de-nominative, de-adjective and de-ideophonic agentive verbalizer.

2.1.1.2 Derived CS1 Causatives

Causative verbs in the category of CS1 pattern are derived with the single causative *-s* morpheme. They are derived from both verbal and non-verbal stems. Base stative intransitive verbs are totally derived as the CS1 pattern, but there are a few base non-stative intransitives that derive for the same pattern. The detail of the CS1 is discussed in-depth in Chapter 6. Consider the following list of the underlying intransitive base stems (BS) and the pairing CS1 of derived transitives of the *-s-* suffix (2):

BS Stative intransitives	Simple CS1 transitives
(2) a. <i>č'ab-uu</i> 'to break (INTR)'	<i>č'ab-s-uu</i> 'to break' (TR)
b. <i>dab-uu</i> 'to deviate'	<i>dab-s-uu</i> 'to cause to deviate'
c. <i>doom-uu</i> 'to become blunt'	<i>doom-s-uu</i> 'to make blunt'

2.1.1.3 Denominal (and deadjectival) CS1 Causatives

Moreover, some adjective roots are directly suffixed with the causative *-s-* to derive a transitive verb. The suffix *-s-* transitivizes a verb occurring on adjective stems. Consider the following chart of some adjectives and their derived bivalent transitive verbs suffixed with the causative *-s-* morpheme. So, this suffix functions as a denominative or a deadjectival verbalizer as it derives a verb in the CS1 pattern from base adjectives and nouns, as shown in list (3) and (4).

Base stative adjectives	CS1 causatives
(3) a. <i>bal'-aa</i> 'wide'	<i>bal'-i-s-uu</i> 'to widen (TR)'
b. <i>k'al'-aa</i> 'thin'	<i>k'al'-i-s-uu</i> 'to thin (TR)'
c. <i>d'ip'p'-aa</i> 'narrow'	<i>d'ip'p'-i-s-uu</i> 'to narrow (TR)'
d. <i>furd-aa</i> 'fat'	<i>furd-i-s-uu</i> 'to fatten (TR)'

Base stative nouns	CS1 causatives
(4) a. <i>dubb-ii</i> 'speech'	<i>dubb-i-s-uu</i> 'to talk to s.o'
b. <i>irk-oo</i> 'support'	<i>irk-i-s-uu</i> 'to support s.th. with s.th'
c. <i>k'alb-ii</i> 'cognition'	<i>k'alb-i-s-uu</i> 'to understand'
d. <i>hark-a</i> 'hand'	<i>hark-i-s-uu</i> 'to pull'

2.1.1.4 Complex CS Causatives

In the causative CS1 pattern, we observe the co-occurrence of pairing derivational suffixes as */-at-s-/* (*[-es-s-]*), *-ah-s-* (*[-es-s-]*) and *-om-s-* in the ATIS-CS1, AHIS-CS1 and OMIS-CS1 pairing patterns respectively. The following list of complex middle derivations shows ATIS/AHIS & CS1 and OMIS & CS1 pairs:

AHIS & ATIS pattern	Causativised CS1 pattern
(5) a. <i>bee-ah-uu</i> 'to become hungry'	<i>beel-es-s-uu</i> 'to make hungry'
b. <i>haaf-ah-uu</i> 'to become greedy'	<i>haaf-es-s-uu</i> 'to make greedy'
c. <i>d'eer-at-uu</i> 'to become long'	<i>d'eer-es-s-uu</i> 'to make long'
d. <i>jab-aat-uu</i> 'to become strong'	<i>jab-ees-s-uu</i> 'to make strong'

OMIS pattern	Causativised CS1 pattern
(6) a. <i>dull-oom-uu</i> 'to become old'	<i>oll-oom-s-uu</i> 'to make old'

- b. *gabr-oom-uu* 'to become a slave' *gabr-oom-s-uu* 'to enslave'
- c. *dur-oom-uu* 'to become rich' *dur-oom-s-uu* 'to make rich'

2.1.1.5 Complex CS2 Causatives

The causative CS2 can also be derived from the AMS middle. The following list of complex verb derivation shows the categories of the middles MS and the corresponding derived causatives CS2:

<i>MS Middle pattern</i>	<i>CS2 (Causativized MS middles) pattern</i>	
(7) a. <i>bit-at-uu</i> 'to buy for oneself'	<i>bit-ač-čüis-uu</i>	'to cause to buy for oneself'
b. <i>ban-at-uu</i> 'to open for oneself'	<i>ban-ač-čüis-uu</i>	'to cause to open for oneself'
c. <i>fid-at-uu</i> 'to bring for oneself'	<i>fid-ač-čüis-uu</i>	'to cause to bring for oneself'
d. <i>hid'-at-uu</i> 'to tie for oneself'	<i>hid'-ač-čüis-uu</i>	'to cause to tie for oneself'
e. <i>k'ab-at-uu</i> 'to hold for oneself'	<i>k'ab-ač-čüis-uu</i>	'to cause to hold for oneself'
f. <i>erg-at-uu</i> 'to send for oneself'	<i>erg-ač-čüis-uu</i>	'to cause to send for oneself'
g. <i>kenn-at-uu</i> 'to give for oneself'	<i>kenn-ač-čüis-uu</i>	'to cause to give for oneself'
h. <i>darb-at-uu</i> 'to throw for oneself'	<i>darb-ač-čüis-uu</i>	'to cause to throw for oneself'

A causativization of various complex autobenefactive derivations is also usual in Oromo complex causative production. For example, complex autobenefactive middles derived from causative CS1 and CS2 patterns, in CS1-MS & CS2-MS pairs, are further causativized for CS2, co-occurring as CS1-AMS-CS2 & CS2-MS-CS2. Besides, a triple derived autobenefactive middle (in MS-CS2-MS derivations is causativized as AMS-CS2-MS-CS2, and a triple derived autobenefactive stem with CS1-CS2-AMS is causativized as CS1-CS2-MS-CS2 derivational orders, as shown in the charts (8), (9), (10):

<i>Complex Autobenefactive [CAUS-MIDD]</i>	<i>Complex Causativized Autobenefactive [CAUS-MIDD-CAUS]</i>	
(8) a. <i>kor-siif-at-uu</i> 'to cause to climb for oneself'	<i>kor-siif-ač-čüis-uu</i>	'to cause s/b to climb s/th for their own benefit'
b. <i>tum-siif-at-uu</i> 'to cause to beat for oneself'	<i>tum-siif-ač-čüis-uu</i>	'to cause s/b to beat s/th for their own benefit'
c. <i>č'uf-siif-at-uu</i> 'to cause to close for oneself'	<i>č'uf-siif-ač-čüis-uu</i>	'to cause s/b to close s/th for their own benefit'
d. <i>seen-sif-at-uu</i> 'to cause to	<i>seen-sif-ač-čüis-</i>	'to cause s/b

- enter for oneself' *uu* to enter s/th for their own benefit'
- e. *waam-sif-at-uu* 'to cause to call for oneself'
- waam-sif-ač-čüis-uu* 'to cause s/b to call s/b for their own benefit'
- f. *k'ab-siif-at-uu* 'to cause to catch for oneself'
- k'ab-sif-ač-čüis-uu* 'to cause s/b to catch s/th for their own benefit'

<i>Complex Middle of Causativized Middle [MS-CS2-MS]</i>	<i>Causativized Complex Middle [MS-CS2-MS-CS2]</i>	
(9) a. <i>kad'-ač-čüif-at-uu</i> 'to cause to beg for oneself'	<i>kad'-ač-čüif-ač-čüis-uu</i>	'to cause s/b to beg s/th for their own benefit'
b. <i>arg-ač-čüif-at-uu</i> 'to cause to find for oneself'	<i>arg-ač-čüif-ač-čüis-uu</i>	'to cause s/b to find s/th for their own benefit'
c. <i>god'-ač-čüif-at-uu</i> 'to cause to dress for oneself'	<i>god'-ač-čüif-ač-čüis-uu</i>	'to cause s/b to dress s/th for their benefit'
d. <i>uff-ač-čüif-at-uu</i> 'to cause to wear for oneself'	<i>tuff-ač-čüif-ač-čüis-uu</i>	'to cause s/b to wear s/th for their benefit'
e. <i>ba'-ač-čüif-at-uu</i> 'to cause to carry for oneself'	<i>bit-ač-čüif-ač-čüis-uu</i>	'to cause s/b to carry s/th for their benefit'

<i>Complex Middle Derivation in CS3-MS pattern [V-si-siis-at-]</i>	<i>Complex causativization in CS3-MS-CS2 pattern [V-si-siis-at-siis-]</i>	
(10)a. <i>kor-si-siif-at-uu</i> 'to cause (for oneself) s/b to cause s/b else to climb s/th'	<i>kor-si-siif-ač-čüis-uu</i>	'to cause s/b to cause s/b else to climb s/th for their own benefit'
b. <i>tum-si-siif-at-uu</i> 'to cause (for oneself) s/b to cause s/b else to beat s/th or s/b'	<i>tum-si-siif-ač-čüis-uu</i>	'to cause s/b to cause s/b else to beat s/th for their benefit'
c. <i>č'uf-si-siif-at-uu</i> 'to cause (for oneself) s/b to cause s/b else to close s/th'	<i>č'uf-si-siif-ač-čüis-uu</i>	'to cause s/b to cause s/b else to close s/th for their benefit'
d. <i>seen-si-siif-at-uu</i> 'to cause (for oneself) s/b to cause s/b else to enter s/th'	<i>seen-si-siif-ač-čüis-uu</i>	'to cause s/b to cause s/b else to enter s/th for their benefit'
e. <i>ban-si-siif-at-uu</i> 'to cause (for oneself) s/b to cause s/b	<i>ban-si-siif-ač-čüis-uu</i>	'to cause s/b to cause s/b else to open s/th

else to open
s/th'

for their bene-
fit'

and transitive verbs and simple or complex extended (or derived) verbs. Consider the following basic and simple and complex derived verbs and their derived benefactive-applicative verbs in (12), (13):

2.1.1.6 Complex Causativization of CS3 Pattern (with -sisiis-Suffix)

The causative stem of CS3 pattern (with -sisiis- suffix) derivation is the most complex causativization which engages a combination of -s- and -siis- suffixes as a tripled si-siis causative to derive a causative of 3 s's, which is used here as the CS3 pattern. According to Owens [14], this causative derivational pattern is the causative of causative. It is assumed that double causative, CS2, is derived as CS3. Here are examples in the list below:

CS2 causatives		CS3 causatives	
(11) a. <i>ban-siis-uu</i>	'to cause to open'	<i>ban-sisiis-uu</i>	'to cause sb to order sb to open sth'
b. <i>kor-siis-uu</i>	'to cause to climb'	<i>kor-sisiis-uu</i>	'to cause sb to order sb to climb'
c. <i>č'aal-čis-uu</i>	'to cause to be more'	<i>č'aal-čisiis-uu</i>	'to cause sb to order sb to be more'
d. <i>seen-sis-uu</i>	'to cause to enter'	<i>seen-sisiis-uu</i>	'to cause sb to order sb to enter'
e. <i>deem-sis-uu</i>	'to cause to go'	<i>deem-sisiis-uu</i>	'to cause sb to order sb to go'
f. <i>hor-siis-uu</i>	'to cause to breed sth'	<i>hor-sisiis-uu</i>	'to cause sb to order sb to breed'
g. <i>č'uf-siis-uu</i>	'to cause to close'	<i>č'uf-sisiis-uu</i>	'to cause sb to order sb to close sth'

Simple verbs		Benefactive Applicative	
(12) a. <i>bit-uu</i>	'to buy'	<i>bit-uu-f-ii</i>	'to buy for'
b. <i>ban-uu</i>	'open'	<i>ban-uu-f-ii</i>	'to open for'
c. <i>fid-uu</i>	'to bring'	<i>fid-uu-f-ii</i>	'to bring for'
d. <i>deem-uu</i>	'to go'	<i>deem-uu-f-ii</i>	'to go for'
e. <i>ka'-uu</i>	'to stand'	<i>ka'-uu-f-ii</i>	'to stand for'
f. <i>bah-uu</i>	'to go out'	<i>bah-uu-f-ii</i>	'to go out for'
g. <i>kenn-uu</i>	'to give'	<i>kenn-uu-f-ii</i>	'to give for'
h. <i>erg-uu</i>	'to send'	<i>erg-uu-f-ii</i>	'to send for'
i. <i>gargaar-uu</i>	'to help'	<i>gargaar-uu-f-ii</i>	'to help for'

2.1.2 The Applicative

The applicative is defined as a "construction in which an oblique element is promoted to the role of an object, with the verb inflected to show that it has that status" [16]. The hallmark of the construction is the 'promotion' of an oblique argument into a core syntactic role, often as a direct object. "For verbs that already have one direct object, the applicative either results in a three-argument (ditransitive) verb, or the 'original' direct object ceases to be exposed" [7].

2.1.2.1 The Benefactive-Applicative

Although different authors have different terms the verb suffixing -f morpheme, for example Owens [17] terms it the dative suffix. The morphological benefactive applicative is marked through -f suffix to the conjugated verb final. Griefenow-Mewis [18] describes -f suffix on a verb as the dative marker if the object is normally not expressed in the sentence. However, I argue that the -f suffix is a benefactive applicative marker whether or not the object is mentioned in the clause. It marks the benefactive applicative derivation when it is suffixed to the verb, but a dative marker when sufficing the nominals (noun, adjective or pronoun).

The benefactive applicative verb derivation applies on all kinds of predicative verbs, such as simple (or basic) intransitive

2.1.2.2. Instrumental-Applicative

The affixation of instrumental applicative phrasal verbs of the locative -tti are instrumental-applicative where the instrumental-applicative suffix -n occurs with the locative as ittii-n. However, suffixing some conjugational verbs with the instrumental -n is contextually applicable, or the verbal suffix with -n indicates an accusative verb, as shown in the list in (13). Consider the following verbs and their corresponding instrumental-applicative locative phrasal verbs:

Simple (in)transitive		Instrumental Applicative	
(13) a. <i>bit-uu</i>	'to buy'	<i>bit-uu-n-ii</i>	'to buy with'
b. <i>ban-uu</i>	'open'	<i>ban-uu-n-ii</i>	'to open with'
c. <i>fid-uu</i>	'to bring'	<i>fid-uu-n-ii</i>	'to bring with'
d. <i>deem-uu</i>	'to betray'	<i>deem-uu-n-ii</i>	'to go with'
e. <i>ka'-uu</i>	'to stand'	<i>ka'-uu-nii</i>	'to stand with'
f. <i>bah-uu</i>	'to go out'	<i>bah-uu-nii</i>	'to go out with'

3. INCREASE OF VALENCY

Oromo language is remarkably rich in morphological valency-changing in general and valency-increasing derivations in particular. While a valency argument as a subject is added with the causative suffixes, a valency argument as a direct object is added and realized with the applicative suffixes (cf. [14], [15]). Thus, those derivational devices are namely the causative -s-, -si(i)s- & -sisiis- suffixes and the applicative: benefactive-applicative -f and instrumental-applicative -n suffixes.

3.1 The Causative

A causative construction can be symbolised as CAUSE(x, P) = 'x causes P', where x is the argument introduced by the causative derivation, and P the caused predicate [7]. Causative predicates involve one more standard argument than the caused predicate. Therefore, if a caused event is intransitive, the causative is transitive; for example, 'John made Ahmad laugh' indicates that the the causativised clause is derived

tional. For instance, *bal'-aa* 'wide', *furd-aa* 'thick' and *k'al'-aa* 'thin' are monovalent adjectival predicates, but *dubb-ii* 'talk / speech' and *irk-oo* 'support' are bivalent relational predicative nouns. Consider the following clauses, as shown in (11) and (11):

- (12) *soofaa-n irkoo duuydaa ti*
 this-NOM support back:GEN COP
 'Sofa is a back support'
- (13) **soofaa-n irkoo d'a*
 sofa-NOM support: ABS COP
 '*This is a support'

In example (12), we observe a possessive clause of the noun *irkoo* 'support' which is a relational as it occurs in the genitive case, as it involves two nominal arguments: 'sofa' and 'back'. Thus *irkoo* is syntactically a bivalent verb, of which a trivalent CS1 causative *irk-i-s-uu* 'to have support (of s.o./s.th.)'. However, in (13) the clause seems somewhat odd since it involves only a noun 'support' as a monovalent nominal predicate. Therefore, denominal and deadjectival CS1 causatives are transitivised verbs of [3B] which occur with an agentive/causative subject and a direct object and indirect object, *dubbisuu* 'to talk to(s.o)' which the same numerical valency {2} for both the nominal predicate and denominal CS1 causative verb. Consider the valency structure codes of the following nominal predicates and their denominal causatives.

- (14) a. *irk-oo* [NBS] [N] [GEN] [2A]
 'support'
 b. *irk-s-uu* (+ d.o.) (i.o.) [CS1] [DCAUS] [TR] [3B]
 'to support (s.th./ s.o.) (to s.th./s.o.)'
- (15) a. *dubb-ii* [NBS] [N] [GEN] [2A]
 'speech (of s.o.)'
 b. *dubb-s-uu* (+d.o.) (+ d.o.) [CS1] [DCAU] [TR] [2B]
 'to make (s.th/s.o.) return home / (from somewhere)'
- (16) a. *furd-aa* [NBS] [ADJ] [ABS] [1A]
 'fat / thick'
 b. *furd-i-s-uu* (d.o.) [CS1] [DCAU] [TR] [2B]
 'to make (sb.) fat / thick'

The majority of adjectives are one-place predicates. When verbalizing these one-place predicate adjectives, a transitive clause involves transitivised verbs suffixed with *-s-* morpheme. The underlying relational sentence structure of the adjective is the attributive. The deadjective and denominative *-s-* suffix increases a valency of the monovalent basic adjective and the bivalent basic noun into bivalent and trivalent derived verb respectively, as shown in (19) and (20):

- (19) a. *man-ni bal'aa d'a*
 house-NOM wide COP
 'The house is wide.'
 b. *aloo-n mana bal'-i-s-e*
 Aloo-NOM house:ABS wide-CAUS-3SG:M:PERF
 'Aloo widened the house.'
- (20) a. *tun dubbii namičč-aa ti*
 this:F:NOM speech man:GEN COP
 'This is his speech.'
 b. *muč'aa-n na dubb-i-s-e*
 child-NOM me:ABS speech-CAUS-3SG:M:PERF
 'The child spoke to me.'

In (19a) and (20a), the underlying attributive clauses are expressed with the copulas *d'a* and *ti*. The predicative adjective in (19a) is syntactically absolutive. It is a monovalent attributive since it entails only a subject *manni* 'house' in the nominative argument. The predicative noun in (20a) is syntactically in genitive case. It is a bivalent attributive as involves two nominal arguments, a possessed *dubbii* 'speech' and a possessor *namiččaa* 'of man'. The examples (19b) and (20b) demonstrate transitive clauses involving deadjectival and denominal verbs *bal'isuu* 'to make (s.th.) wide' and *dubbisuu* 'to speak (to s.o.)' respectively. These transitivised verbs are derived from base stems (BS), *bal'-* and *dubb-* of corresponding adjective *bal'aa* 'wide' and noun '*dubbii* 'speech' through the verb formative causative *-s-* suffix. Thus, the basic numerical valency of the adjective and the noun increases by one in the corresponding deadjectival and denominal verbs because a subject is introduced as a direct causative agent. Therefore, the monovalent adjective *bal'-aa* 'wide' in (19a) advances its valency to two in its bivalent deadjectival verb *bal'-i-s-uu* 'to make wide' in (19b), and the bivalent noun *dubbii* 'speech' in (20a) increases its valency to three in its trivalent denominal verb *dub-i-s-uu* 'to speak to (s.o)' in (20b). As a result, the verbal *-s-* morphology made here is more intending primarily to code agentivization or transitivization than to code causativization since Oromo true causative marking is the double causative *-sis-* morpheme.

3.1.1.3. De-ideophonic CS1 Valency

The *-s-* suffix is verbalizer in ideophone verbs. According to my hypothesis, it is rather agentivizer than transitivizer. Both transitive and intransitive ideophone stems are verbalized with *-s-*, but they are lexically identified as intransitive marked with *jed'-uu* 'to say' and transitive with *god'-uu* 'to make'. Very few ideophone verbs are found to be transitive; for example, verbs such as *k'irk'ir-s-uu* (or *k'irk'ir god'-uu*) 'to tickle' and *firfir-s-uu* (or *firfir god'-uu*) 'to intensely move apart' are transitive ideophone verbs formed through the causative *-s-* suffix as a transitivising de-ideophonic verbalizer. They are derived from stems of ideophones of visual concepts *k'irk'ir-* 'intensive act of tickling somebody' and *firfir-* 'intensive act of moving (sb/sth) apart. Of course, these ideophone stems are formally slightly different from the intransitive ideophonic stems.

- (21) a. *k'irk'ir-* ideophone BS
 'Sounding intensive thunder storm'
 b. *k'irk'ir-s-uu* (+ d.o.) [CS1] [INTS] [TR] [2B]
 'to tickle (s.o.)'

As we observe from examples (21) mentioned above, the ideophone stem of the transitive is totally reduplicated while the syllable of intransitive ideophone stems is partially reduplicated root-finally (see also section 2.3.1). The intensive causative *k'irk'ir-s-uu* is a bivalent 'transitivised' de-ideophonic verb. In fact, all de-ideophonic intensive causatives are agentive verbs since the *-s-* suffix occurs in them. The transitivising CS1 de-ideophonic verb is valency-increasing, as it involves an agentive subject and a patient. The following example of transitive

sentence involves a de-ideophonic transitivised verb in the pattern.

- (22) *gurbaa-n muč'aa k'irk'ir-s-a*
 boy-NOM baby:ABS tickle-CS-3SG:M:IMPRF
 'The boy tickles the baby'

The subject argument is realized as a direct agent of the intensive action in a transitivising notion in (21). A transitive verb *k'irk'ir-s-uu* 'to tickle' involves two arguments, a transitive subject (*gurbaa* 'boy') in the nominative and an affected direct object (*muč'aa* 'baby') in the absolutive. While the subject does the intensive action of tickling, the direct object undergoes that action made of a visually-ideophone.

3.1.1.4 The Causative ATIS-CS1, AHIS-CS1 & OMIS-CS1 Patterns and Valency

In the assumption of many scholars, including Tolemariam [15], a geminated -ss in -ess- suffix is another form in the Oromo causative, which they assume a denominative and deadjectival verbaliser, and semantically a direct causative. Here, it is interesting to consider Tolemariam's justification for that attempting to justify his argument, he provides some examples of verbs such as *diriir-s-uu* 'to spread' and *dab-s-uu* 'to bend', and he says, "They optionally geminate their causative morpheme to increase the number of -s's to two with no change of meaning as in *diriir-ss-uu* and *dab-ss-uu*".

However, I disagree with his statement and justification, as I suggest following three points of view: (1) his optional examples of geminated -ss morpheme do not work to justify because they are weird and unusual to have three (more than two) consecutive consonants whether geminated or different (i.e., geminated -ss cannot occur as suffix in such verb stems *diriir-* or *dab-* unless the epenthesis vowel *i* is inserted between the stem and the suffix he calls "geminated -ss" causative) (2) I think there is no such articulation or pronunciation geminating -s- suffix of the mentioned verbs in the spoken Oromo as far I have confirmed even from his Maccaa Oromo dialect (3) There is no reason to geminate the -s morpheme where there is no indication as morphophonemic change like the allomorph -č of the -s morpheme because of the stem-final glide consonants /l/ and /r/ precede the -s suffix (cf. section 2.2.1.1). Hence, the number of -s morpheme correlates with number of agents in Oromo causative verbs.

A geminated -ss is traditionally connected with -e(e)ss- as a denominative or deadjectival transitivising causative verbalizer. This causative suffixal form is a variant of the -s- morpheme (cf. [13], [15], [16]). However, I argue that there is no a geminated *ess* causative variant because the traditional -ess- suffix is not really a single suffix, rather two combined suffixes (-es-s-) that result from the derivational ATIS & CS1 patterns and AHIS & CS1 patterns of -at-s- and -ah-s- suffixes respectively, co-occurring as inchoative-causative pairs. For example, in verbs such as *diim-at-uu* 'to become red' and *beel-ah-uu* 'to become hungry', the denominative or deadjectival inchoative -at- and -ah- morphemes take a form of an allomorph [-es] in their respective derived *diim-es-s-uu* 'to make red' and *beel-es-s-uu* 'to make hungry' when they are followed by a single -s- in CS1 causative. So, how does this happen?

According to Llore [13], a non-glottalized coronal /t/ which occurs stem-finally plus /s/ of causative suffix becomes [čč]; a laryngeal /h/ and glides /y, w/ are deleted and replaced as [s] when they are followed by /s/, and a preceding short /a/ in the -at- and -ah-/-aw-/-ay- suffixes may be affected by vowel harmony as it becomes [e]. for example, the inchoative verb stem *d'eer-at-* 'be long/tall' is causativized with -s- in order to form a verb */d'eer-at-s-uu/* 'to lengthen (s.th)' but with morphophonemic changes, the verb is pronounced as *[d'eer-es-s-uu]* (in the A-B dialect) or *[d'eer-eč-č-uu]* (in the Tuulama variety). So, palato-affrication and/or alveofricativization take place in the morphophonemic changes [13]. As a result, I categorize causative verbs derived with -es-s- (traditionally -ess-) suffix under pattern CS1 (with single -s causative suffix).

Furthermore, we have also two clues to evidence that '-ess-' is not a variant or allomorph of the -s- causative morpheme: (1) like causative verbs derived with -s- suffix, a causative verb derived with -ess- morpheme is semantically a direct causative. (2) A single causative can be extended from -om pattern derived inchoative verb stem. For example, the -om pattern inchoative, *k'ar-oom-uu* 'to be wise', is causativized as *k'ar-oom-s-uu* 'to make wise', likewise, the -at- pattern inchoative and the -ah- pattern inchoative are also derived with single causative for direct causation, where we can observe -es-s- form of ATIS-CS1 and AHIS-CS1 pairs from morphemic -at-s- and -ah-s- co-occurrences or combinations.

Therefore, I argue that it is a wrong assumption to see -ess is a single suffix of which *ss* geminated (doubled) as a variant or allomorph of the -s- causative morpheme. Rather, it may be right to assume that a composite pattern of two consecutive suffixes is distinctively considered as -es-s- (or -eč-č-) and that -es- (-eč-) is the allomorph of the -at- or -ah- inchoative morphemes when their stems are causativized with the single -s- suffix, a short /a/ is affected by vowel harmony and becomes [e]. Thus, the geminated *ss* comes from a sequence of changed allophone [s] and changing phoneme /s/ in the direct causativization of inchoative middle stems of the -at- and -ah- patterns. The inchoatives in ATIS, AHIS and OMIS patterns are derived stative verbs. A CS1 form of causative derivation with -s- suffix from these stative inchoative verbs is transitivising and increasing valency by one, as it introduces a direct causative [DCAUS], while the denominative and the deadjectival -at-, -ah-, and -om- suffixes in the ATIS, AHIS and OMIS inchoatives respectively are generally hypothesized detransitivising. Thus, this causation is transitivising a detransitivised stative inchoative. Consider the following CS1 causativised inchoative verbs of [1A] and their derived CS1 verbs of [2B]:

- (23) a. *diim-at-uu* [ATIS] [INTR] [1A]
 red-ATIS-INFV
 'to become red'
 b. *diim-es-s-uu* (+ d.o.) [CS1] [DCAUS] [TR] [2B]
 red-ATIS-CS1-INFV
 'to make (s.th/sb.) red'
- (24) a. *beel-ah-uu* [AHIS] [INTR] [1A]
 hunger-AHIS-INFV
 'to become hungry'

- b. *beel-es-s-uu* (+ d.o.) [CS1] [DCAUS] [TR] [2B]
 hunger-AHIS-CS1-INFV
 'to make (s.th/sb.) hungry'
 (25) a. *dull-oom-uu* [OMIS] [INTR] [1A]
 old-OMIS-INFV
 'to become old'
 b. *dull-oom-s-uu* (+ d.o.) [CS1] [DCAUS] [TR] [2B]
 old-OMIS-CS1-INFV
 'to make (s.th/sb.) old'

Examples in (23), (24) and (25) show the examples of causativised CS1 verbs from the inchoative forms of the ATIS, AHIS and OMIS patterns respectively. While the inchoative deriving -at and -ah morphemic forms in (23) and (24) are morphophonemically changed to -es allomorph as they are causativised with -s-, inchoative -om morpheme in the causativised CS1 is clearly apparent as shown in (25b). The inchoatives in a illustrate that they are intransitive verbs of [1A] valency structure while their counterpart CS1 causatives are transitive verbs (transitivised with -s suffix) classified in [2B] valency structure codes. The agent introduced in CS1 is a direct causer [DCAUS] in the transitivising event. Therefore, the inchoative-middle of ATIS AHIS and OMIS patterns and the causative of CS1 pairing stems indicate that the increase of valency by one.

3.1.2. Valency and the -sis- Suffix

In Oromo, the -sis- suffix is the default causative suffix with the broadest usage. It is formally known as double causative because we observe two/double s's in the -sis- suffix. Like Oromo, double causative suffixes of Agaw languages (except Kemant) can appear on the same verbs, so it is not a case of complementary distribution, double causatives are also common in Konso [22], and there are several combinations of reconstructed causative suffixes in Eastern Cushitic [23]. the simplest and most productive causative can be referred to as a "first (primary) causative" [24]. Other more complex causatives which can be applied to the same verbs as the first causative are considered 'second causatives'.

Verb stems marked with -sis are labeled in this research as a CS2 pattern because it implies a causative stem derived with double causative -sis- suffix (i.e. -sis- is formed from two s's inserted with i to indicate clearly separate 2 s's). Kulikov [24] has written in detail about a phenomenon he calls "second causative" – a notion in which a language has at least two different causative verbal derivations which can both be applied to the same verbs (as opposed to different suffixes for different verb classes). Kulikov [24] also describes five morphological options that languages employ for their second causative. The -siis suffix fits his fifth option in which the second causative does not share any common part with the first causative.

The causative -sis derivation also indicates an indirect (but intentional) causation by an agent. Therefore, CS2 is a 'second' causative if we infer from the number of causative marking s morpheme and the degree of direct causation. Therefore, as seen in (1)-(3), all three Oromo causative suffixes can be applied to the same verbs, using Kulikov's terminology, -sis- can be described as the true or first causative, while -s is more inclined to be a 'transitive' than 'causative' marker and -siis is more to be an 'effective' causative.

In the second hierarchy of valency increase, the direct causative derived with single causative has the valency code 2B or 3B, where it contains one direct object. The third hierarchy of valency increase in the causative derivation is the double causative derived with -si(i)s- suffix. It derives a causative from active intransitive and transitive verbs. The valency structure codes of this type of causative are 2B, 3B, 3C and 4C. The number of valency of the majority of these indirect causative verbs exceeds the number of valency of direct causatives.

3.1.2.1. The BS-CS2 Pattern and Valency

We investigate here the valency of CS2 causativisation in the base verbal stem pairing CS2 causative stem pattern derivation. Consider the valency structure and the numerical valency in the causativisation of the following verbs.

- (29) a. *deem-uu* (+ i.o.) / (d.o.) [BS] [INTR] [1A/2A/2B]
 'to go (to s.w.) / (s.w.)'
 b. *deem-sis-uu* (d.o.) (+ i.o.)/(+d.o.) [CS2] [ICAUS][TR]
 [2B/3B/3C]
 'to cause (s.o.) to go (to s.w.) / (s.w.)'
 (30) a. *ban-uu* (+ d.o.) [BS] [TR] [2B]
 'to open (s.th.)'
 b. *ban-siis-uu* (+ d.o.) (+ d.o.) [MS] [ICAUS] [TR] [3C]
 'to cause (s.o.) to open (s.th.)'
 (31) a. *erg-uu* (d.o.) (i.o.) [BS] [DTR] [3B]
 'to send (s.o) (to/for s.o. / s.th.)'
 b. *ergi-siis-uu* (+ d.o.) (+ d.o) (i.o.) [CS2] [ICAUS] [TR] [4C]
 'to cause (s.o.) to send (s.o./s.th.) (to/for s.o./s.th.)'

3.1.2.2. The CS1-MS-CS2 Pattern and Valency

This section discusses the valency of CS2 causativisation in the 'CS1 causative-MS middle-CS2 causative syncretism' stem pattern derivation (i.e., the co-occurrence of -s-at-siis- derivational morphemes in the same verbal stem). Consider the valency characteristics of the following causative verbal derivation.

- (32) a. *čab-s-at-uu* (+ d.o.) [MS] [AUTOB] [TR] [2B]
 'to break for oneself'
 b. *čab-s-ač-čiiis-uu* (+ d.o.) (+d.o.) [CS2] [ICAUS] [TR] [2C]
 'to break for oneself'

3.1.2.3. The CS2-MS-CS2 Pattern and Valency

This section discusses the valency of CS2 causativisation in the 'CS2 causative-AMS middle-CS2 causative syncretism' stem pattern derivation (i.e., the co-occurrence of -sif-ač-čiiis- derivational morphemes in the same verbal stem). Consider the valency characteristics of the following causative verbal derivation.

- (33) a. *seen-sif-at-uu* (+ d.o.) [AMS] [AUTOB] [TR] [3C]
 'to cause (s.o/s.th.) to enter (s.th.) for oneself'
 b. *seen-sif-ač-čiiis-uu* (+d.o.) (+d.o.) [CS2] [ICAUS] [TR] [4D]
 'to cause (s.o) to cause for oneself (s.o/s.th.) to enter (s.th.)'

3.1.2.4. Causative ATIS-CS2, AHIS-CS2 & OMIS-CS2 Patterns and Valency

This double causative derivation denotes the inchoative-causative syncretism. Although it is ambiguous that whether a CS2 (double) causative verb is directly derived from inchoative verbs or from CS1 causativised inchoatives, we treat it here as a direct CS2 causativisation from inchoative forms in the ATIS, AHIS and OMIS patterns. Consider the following CS2 causativised inchoative verbs of [1A] and their derived CS2 verbs of [2B]:

- (34) a. *diim-at-uu* [ATIS] [INTR] [1A]
red-ATIS-INFV
'to become red'
- b. *diim-ač-čüis-uu* (+ d.o.) [CS1] [ICAUS] [TR] [2B]
red-ATIS-CS2-INFV
'to make (s.th/sb.) red'
- (35) a. *beel-ah-uu* [AHIS] [INTR] [1A]
hunger-AHIS-INFV
'to become hungry'
- b. *beel-oy-siis-uu* (+ d.o.) [CS1] [ICAUS] [TR] [2B]
hunger-AHIS-CS2-INFV
'to make (s.th/sb.) hungry'
- (36) a. *dull-oom-uu* [OMIS] [INTR] [1A]
old-OMIS-INFV
'to become old'
- b. *dull-oom-sis-uu* (+ d.o.) [CS1] [ICAUS] [TR] [2B]
old-OMIS-CS2-INFV
'to make (s.th/sb.) old'

The agentive subject introduced in the CS2 causativised verb, unlike CS1 causative, is an indirect causer of the caused patient, which is spontaneously affected of the event, as shown in (37):

- (37) a. *hintal-ti diim-at-te*
girl-F:NOM red-ATIS-3SG:M:PERF
'The girl became red'
- b. *k'illens-ihintala diim-ač-čüis-e*
weather-NOM girl:ABS red-ATIS-CS2-3SG:M:PERF
'The weather caused the girl to become red'
- c. **č'aalaa-n hintala diim-ač-čüis-e*
č'aalaa-NOM girl: ABS red-ATIS-CS2-3SG:M:PERF
'Caalaa caused the girl to become red'

The example (37) illustrates a transitive clause derived from intransitive clause of the ATIS-CS2 causative derivational pattern in the inchoative-causative syncretism. In (37a), the intransitive clause involves a monovalent detransitivised inchoative stative verb of the ATIS pattern derived with deadjectival *-at-* suffix. This verb is a monovalent of [1A] code since it entails on a subject semantically realized as spontaneously affected patient. In (37b), the transitive clause, involving a bivalent CS2 causative verb, has two arguments in the nominative and absolutive cases. The subject argument *k'illens-i* 'weather-NOM' is inanimate indirect agent which participates to affect the spontaneous patient. However, when the introduced indirect causer is a human agent of the affected patient, the sentence looks incomplete, as shown in (37c), because for the involvement of indirect causer, there should be a caused direct agent as a causee of the event. Therefore, the causativisation in the morphological ATIS-CS2, AHIS-CS2 and OMIS-CS2 patterns, the introduced indirect causer is inanimate agent.

In general, the Table 4 consists of a comprehensive example with some listed verbs to illustrate a hierarchical approach to the numerical valency structures in the causative CS2 pattern (with *-siis-* suffix).

Underlying stem	Valency codes	Derived stem	CS2 Valency codes
<i>deem-uu</i>	[1A/2A/2B]	<i>deem-sis-uu</i>	[2B/3B/3C]
<i>ban-uu</i>	[2B]	<i>ban-siis-uu</i>	[3C]
<i>nak'-uu</i>	[2B/3B]	<i>nak'-siis-uu</i>	[3C/4C]
<i>dib-uu</i>	[3C]	<i>dib-siis-uu</i>	[4D]
<i>yar-at-uu</i>	[1A]	<i>yar-ač-čüis-uu</i>	[2B]
<i>diim-at-uu</i>	[1A/2B]	<i>diim-ač-čüis-uu</i>	[2B/3C]
<i>ban-at-uu</i>	[2B]	<i>ban-ač-čüis-uu</i>	[3C]
<i>rif-at-uu</i>	[1A/2A/2B]	<i>rif-ač-čüis-uu</i>	[2B/3B/3C]
<i>diim-es-s-uu</i>	[2B/3B]	<i>diim-es-siis-uu</i>	[3C/4C]
<i>č'ab-s-uu</i>	[2B]	<i>č'ab-siis-uu</i>	[3C]
<i>bubb-s-uu</i>	[1A/2A]	<i>bubb-siis-uu</i>	[2B/3B]

Table 4: Valency structures in the causative CS2 pattern (with *-siis-* suffix)

3.1.3. Valency and the *-sisiis-* Suffix

The suffix *-sisiis-* on the other hand, is similar to the option he describes as doubling with alternation: Y[second causative] = X1 + X2 whereas both X1 and X2 serve as first causative markers but obligatorily alternate when deriving double causatives, since two identical morphemes cannot be repeated immediately" [7]. The *-sisiis-* suffix is a combination of two causative markers (*-s-* and *-siis-*), but it differs from the Kulikov's description in that only *-s-* is a first causative.

A verb marked with *-sisiis-* should first be a derived causative because it is a causative of causative derivation [15]. The hypothesis of this study first assumed that a causative in CS3 is extended from CS2, but the current analysis indicates CS3 derives from both CS1 and CS2 patterns. In Van Valin and LaPolla [19], an Effector is described as "...the participant that brings something about, but there is no implication of its being volitional or the original instigator. It is simply the effecting participant. It is simply the effecting participant. It can be human, animate or inanimate".

Semantically, CS3 indicates that a causer has the least degree of agentivization in comparison with CS1 and CS2 in the causative event. Thus, it would be better to say the subject of CS3 is semantically an effector than a causer because the impact of the subject is an effect of the caused event or very limited causative participation. This fits with Kulikov's [24] iconicity principle which states that within a language having two or more causatives, smaller constructions are more direct and larger constructions are less direct.

3.1.3.1. The BS-CS1-CS3 Pattern and Valency

The highest causative hierarchical valency increase is the pattern CS3 is derived from the pattern CS2 through *-si-siis* suffix in order to form the most complex causative as a multi-

transitive verb. The valency structure codes in this causative are 4D, involving three direct objects, or up to 5D valency codes adding obligatory indirect object for basically ditransitive verbs. This indicates the largest numerical valency increase.

- (39) a. *č'ab-uu* (+ d.o) [BS] [INTR] [1A]
'to break (s.th.)'
b. *č'ab-s-uu* (+ d.o) [CS1] [DCAUS] [TR] [2B]
'to break (s.th.)'
c. *č'ab-sisiis-uu* (+ d.o) (+ d.o) [CS3] [ICAUS] [TR] [3C]
'to cause (s.o.) to break (s.th.)'
c'. *č'ab-sisiis-uu* (+ d.o) (+ d.o) [CS3] [EFFEC] [TR] [4D]
'to cause (s.o.) to break (s.th.)'

The causativisation step, according to the derivation in (39), has jumped the formal hierarchical CS2 (-sis) pattern, the numerical valency step is consistent because in (39a) the structural code is [1A], in (39b) the code is [2B] and in (39c) it is [3C]. However, in (39d), is according to my hypothesis which assumes that three s's in the causative morpheme represent equivalent three agents in the causation classified in the [4D] code. Thus, from the causative CS1 pattern, the CS3 pattern, like CS2 pattern, can derive as an independent variable. Consider the syntactic clauses in (40) which illustrate the valency patterns in the BS-CS1-CS3 causation pattern:

- (40) a. *Tolaa-n muka č'ab-s-e*
Tolaa-NOM wood:ABS break-CS1-3SG:M:PERF
'Tolaa broke the tree'
b. *Tolaa-n gurbaa muka č'ab-sisiis-e*
Tolaa-NOM boy:ABS wood:ABS break-CS3-3SG:M:PERF
'Tolaa broke the tree'

3.1.3.2. The BS-CS2-CS3 Pattern Valency

Note! I left the below (41) for editor to draw for me a chart for words in list

- | <i>CS2 Pattern Causative</i> | <i>CS3 Pattern Causative</i> |
|-----------------------------------------------------|-----------------------------------------------------------------|
| (41) a. <i>č'ab-siis-uu</i> 'to cause to break sth' | <i>č'ab-sisiis-uu</i> 'to cause sb to cause to break sth' |
| b. <i>dab-siis-uu</i> 'to cause to divert sth.' | <i>dab-sisiis-uu</i> 'to cause sb to cause to divert (s.th.)' |
| c. <i>ban-siis-uu</i> 'to cause to open (sth.)' | <i>ban-sisiis-uu</i> 'to cause sb to cause to lengthen (s.th.)' |
| d. <i>deem-sis-uu</i> 'to cause to go' | <i>deem-sisiis-uu</i> 'to cause to cause(sb) to go (s.w.)' |
| e. <i>kaa-sis-uu</i> 'to cause to make stand' | <i>kaa-sisiis-uu</i> 'to cause sb to cause to stand (s.th.)' |

- (42) a. *ban-siis-uu* (+ d.o) (+ d.o) [CS2] [ICAUS] [TR] [3C]
'to cause (s.o.) to open (s.th.)'
b. *ban-si-siis-uu* (+d.o) (+d.o) (+d.o.) [CS3][FACT][TR][4D]
'to cause (s.o.) to cause (s.o.) to open (s.th.)'
(43) a. *nay-siis-uu* (+ d.o) (+ d.o) (+ i.o.) [CS2][ICAUS][TR] [4C]
'to cause (s.o.) to add (s.th.) (into s.th.)'
b. *nay-si-siis-uu* (+ d.o) (+ d.o) (+ d.o.) (+ i.o.) [CS3] [FACT] [TR] [5D]
'to cause (s.o.) to cause (s.o.) to add (s.th.) (into s.th.)'

- (44) a. *Tomas balbala ban-e*
Toman:NOM door :ABS open-3SG:M:PERF
'Tolaa broke the tree'
b. *Tolaa-n Tomas-iin balbala ban-siis-e*
Tolaa-NOM Tomas-ACC door:ABS open-CS2-3SG:M:PERF
'Tolaa broke the tree'
c. *inni Tolaa Tomas-iin balbala*
he:NOM Tolaa:ABS Tomas-ACC door:ABS
ban-sisiis-e
open-CS3-3SG:M:PERF
'Tolaa broke the tree'

The sentences in (44) illustrate valency increase in the hierarchical three verbal stems, of which two are causative derivations. In (44a), the base transitive verb involves an agentive subject in the nominative case and a patient direct object in the absolutive of the [2B] valency structure. In (44b), the CS2 causative verb adds or introduces an indirect causer1 Tolaa as a subject that causes an direct agent/ causee Tomas to directly participate in the act of 'opening door'. Thus, the valency increases by one as the clause of CS2 causative involves three arguments: one subject and two direct objects in the valency structure [3C]. In (44c), a causer2 inni 'he' is introduced as an indirect agentive subject in the CS3 causative to cause causer1 Tolaa to cause Tomas, a direct agentive to act in the event. Therefore, again, the valency has increased by one hence the CS3 causative engages four arguments: one subject and three absolutive objects in the [4D] code.

In general, the hierarchical valency structural codes of causative derivation in the set of CS1, CS2 and CS3 verbal stem patterns include 1A, 2B, 3B, 3C, 4C, 4D, 5D and 5E codes. Consider a comprehensive map of valency increase of the causative derivations in the hierarchical valency structural codes in the table (5):

BS	Valency codes	CS1/CS2	Valency codes	CS1-CS2 (CS3)	Valency codes
<i>barr-</i>	-	<i>barr-i-s-uu</i> / <i>barr-i-siis-uu</i>	[1A/2B]	<i>barr-i-si-siis-uu</i>	[3C]
<i>č'ab-uu</i>	[1A]	<i>č'ab-s-uu</i> / <i>č'ab-siis-uu</i>	[2B/3C]	<i>č'ab-si-siis-uu</i>	[3C/4D]
<i>deem-uu</i>	[1A/2A/2B]	<i>deem-sis-uu</i>	[2B/3B/3C]	<i>deem-si-siis-uu</i>	[3C/4C/4D]
<i>ban-uu</i>	[2B]	<i>ban-siis-uu</i>	[3C]	<i>ban-si-siis-uu</i>	[3C/4D]
<i>nak'-uu</i>	[2B/3B]	<i>nak'-siis-uu</i>	[3C/4C]	<i>nak'-si-siis-uu</i>	[4D/5D]
<i>dib-uu</i>	[3C]	<i>dib-siis-uu</i>	[4D]	<i>dib-si-siis-uu</i>	[5E]

Table 5: A hierarchical approach to valency structures of pattern BS, CS2 and CS3 (with -si-siis-)

3.1.4. Lexical (Suppletive) Causativisation

So far, we have acknowledged that single causativisation is simple transitivity; however, there is still a distinct transitivity mechanism in Oromo, which is referred to as lexical

causative. A base intransitive verb may have a corresponding transitive form, of which stem is different from that of intransitive [7]. It is impossible for base of the intransitive verbs to derive with any of the causative suffixes (-s- and -sis-); for example, base intransitive verbs such as *d'uf-uu* 'to come' and *č'it-uu* 'to get cut' are transitivised only as *fid-uu* 'to bring' and *kut-uu* 'to cut' respectively, so derived causative forms as *č'ič-č'iis-uu and *d'uf-siis-uu are impossible. These intransitive verbs are active or non-active monovalent verbs; for instance, *d'ufuu* 'to come' is an active monovalent verb while *č'ituu* 'to get cut' is a non-active/unaccusative monovalent verb. Thus, the suppletive causative denotes transitivity relations with its corresponding intransitive, and thereby increasing valency by one.

However, other derived suppletive transitive causative forms such as *ball-eess-uu* 'to make disappear, to destroy', *dabar-s-uu* 'to pass (TR.)' and *ajjēe-s-uu* 'to kill' are distinct from their basic forms of the intransitives *bad-uu* 'to disappear', *tar-uu* 'to pass (INTR.)' and *du'-uu* 'to die' are lexically and morphologically distinct respectively. Consider the following list of intransitive verbs and their suppletive causatives:

<i>Intransitives</i>	<i>Lexical/Suppletive Causatives</i>	
(44) a. <i>deem-uu</i> 'to go'	<i>oof-uu</i>	'to drive'
b. <i>d'uf-uu</i> 'to come'	<i>fid-uu</i>	'to bring'
c. <i>č'it-uu</i> 'to be cut'	<i>kut-uu</i>	'to cut'
d. <i>haf-uu</i> 'to remain'	<i>hamb-i-s-uu</i>	'to leave s.th'
e. <i>du'-uu</i> 'to die'	<i>ajj-ees-uu</i>	'to kill'
f. <i>bad-uu</i> 'to get destroyed'	<i>ball-es-s-uu</i>	'to cut'
(45) a. <i>haad-ni</i> rope-NOM	<i>č'it-e</i> be cut-3SG:M:PERF	
'The rope got cut'		
b. <i>in-ni</i> him-NOM	<i>haada</i> rope: ABS	<i>kut-e</i> cut-3SG:M:PERF
'He cut the rope.'		
c. <i>buddeen-ni</i> bread-NOM	<i>haf-e</i> remain-3SG:M:PERF	
'The bread remained'		
d. <i>awwal</i> Awwal: NOM	<i>buddeena</i> bread:ABS	<i>hamb-s-e</i> remain-CAUS-3SG:M:PERF
'Awwal left some bread (lit., made the bread remain)'		

Examples in (45) illustrate underlying intransitive clauses and their derived transitive involving causativizations through suppletive derivation. In (45a) and (45c), the non-agentive (stative) subject of the underlying intransitive clauses is a patient argument. The involved stative intransitive verbs are monovalent that they assign only a patient (NOM) in the subject position. In (45b) and (45d), the causativized clause construction involves a derived suppletive verb. The verb introduces a direct agent to the event, and thereby increasing the valency to two. In the causative construction, the agent (NOM) takes a subject slot while the patient (ABS) shifts to the object position, which was once syntactically a subject (NOM) in the underlying intransitive clause.

In conclusion, it seems clear that the default -s- suffix gen-

erally indicates direct causation carried out by an agent causer, -sis- indicates indirect causation by an agent causer, and -sisiis- indicates indirect causation by an effector causer. The syntactic causatives formed with *god'-uu* 'to make/do' is both direct and indirect, and it retains more control over the action.

3.2. The Applicative

An applicative derivation is a valency-increasing operation. It adds an object argument that is (in the canonical case) semantically a Goal (Beneficiary, Recipient and Location) (Payne 1997: 257). For example, 'arrive' > arrive-APP the airport 'arrive at the airport > dance-APP the teacher 'dance for the teacher'. For example, in the underlying sentence, *ani gurbaâ-f mana bane* 'I opened the door for the boy' and the derived sentence *ani gurbaa mana bane-f* 'I opened the door for the boy', the peripheral indirect object *gurbaa-f* 'for boy' in the dative is brought to center as a beneficiary/recipient direct object *gurbaa* in the absolutive case.

Oromo applicative verb derivational mechanism is both synthetic and analytic (i.e., through morphological affixation and compounding). The synthetic applicative verb deriving morphemes are the benefactive-applicative -f suffix, which semantically realizes beneficiary or recipient and the instrumental -n suffix which represents instrument. The analytic applicative verb deriving morphemes are preverbally combining postpositions. These postpositions include case clitics the locatives (Location) (*i)tti* 'to/into/at' and (*i)rra* 'on', the locative (Source) *irraâ* 'of/from', are either bound morphemes (suffixes) when occur in the NP or free (analytic) morphemes when combine with verbs. The rest (many other) postpositions, such as *gubbaa* 'on/over', *jala* 'under/beneath', *dura* '(in)front/ahead', *duuba* 'back/behind' and *moggaa* 'beside', are all free (or analytic) morphemes in both NP and derived verbs as locatives for location derivation. Since location indicates various positions, different forms of adpositions, such as 'on', 'in', 'to', 'over', 'under', 'back', and 'behind' are used.

The derivation adds valency of the majority verbs but upgrades the inherent indirect object of ditransitive verb to be a direct object of the applicative verb. Consider the valency structure of following applicative verbal derivation:

- (51) a. *ban-uu* (+d.o.) [TR] [2B]
 'to open (s.th.)'
 b. *ban-uu-f-ii* (+d.o.) (+d.o.) [BENAPL][BENEF][TR][3C]
 'to open (s.th.) (for s.o./s.th.)'
- (52) a. *erg-uu* (+d.o.) (+i.o) [TR] [3B]
 'to open (s.th.)'
 b. *erg-uu-f-ii* (+d.o.) (+d.o.) [BENAPL][BENEF][TR][3C]
 'to send (s.th.) (for s.o./s.th.)'

3.2.1. The Benefactive-Applicative -f Suffix

The applicative is defined as a "construction in which an oblique element is promoted to the role of an object, with the verb inflected to show that it has that status" [25]. The hallmark of the construction is the 'promotion' of an oblique argument into a core syntactic role, often as a direct object. "For verbs that already have one direct object, the applicative either

results in a three-argument (ditransitive) verb, or the 'original' direct object ceases to be exposed" [7].

Different authors have different terms for the verbal suffixing -f morpheme, for example Owens [14] terms it the dative suffix. The morphological benefactive applicative is marked through -f suffix to the conjugated verb final. Griefenow-Mewis [18] describes -f suffix on a verb as the dative marker if the object is normally not expressed in the sentence. However, I argue that the -f suffix is a benefactive applicative marker whether or not the object is mentioned in the clause. It marks the benefactive applicative derivation when it is suffixed to the verb, but a dative marker when suffixing the nominals (noun, adjective or pronoun).

The applicative construction is found in a number of genetically diverse Cushitic and Semitic languages including Oromo [22]. Besides, according to Amberber [20], Amharic, an Ethio-Semitic language, has the applicative derivation though it is not traditionally usual towards Amharic grammarians. Consider the following examples from Amharic (Semitic):

- (53) a. *aster bə-mət'ragja-w dəjj t'ərrəg-ačč*
 Aster with-broom-DEF doorway sweep-3F:PERF
 'Aster swept a doorway with the broom'
- b. *aster mət'ragja-w-n dəjj t'ərrəg-ačč-ibb-ət*
 Aster with-broom-DEF-ACC doorway sweep-3F:PERF-with-3MO
 'Aster swept a doorway with the broom'
 (lit., 'Aster, the broom, she swept a doorway with it')

In (53a), the instrument occurs in a prepositional phrase, whereas in (53b), it occurs without the preposition, furthermore, in (53b) the verb is more complex than the verb in (53a): it includes a unit of affixes -bb-ət, the suffix -bb- is referred to as an instrument-applicative suffix, and the following pair -at-suffix is an object agreement marking form.

A similar applicative derivation is found in Yagua (Austronesian). According to Payne [7], the suffix -ta indicates that an instrumental or locative participant is in the direct object position. Consider the following examples in (54):

- (54) a. *sa-duu rá-viimú*
 3SG-blow INAN-into
 'He blows into it' (valency = 1)
- b. *sa-duu-tá-ra*
 3SG-blow-TA-INAN:OBJ
 'He blows into it' (valency = 2)

Oromo has also an applicative voice construction as a morphological verb derivational mechanism of valency increase. However, this term has not been traditionally used in the description of verb derivational typology of Oromo. Consider the examples of benefactive-applicative derived from base transitive verb bit-uu 'to buy' in (55):

- (55) a. *ani Ahmadii-f surree bit-e*
 I Ahmad-DAT trousers:ABS buy-3SG:M:PERF
 'I bought a trouser suit for Ahmad'
- b. *ani ahmad-iin surree bit-ee-f*
 I Ahmad-ACC trousers:ABS buy-3SG:M:PERF-BEN
 'I bought a trouser suit for Ahmad'

The applicative derivation can both 'upgrade' a participant in the event structure of the verb and 'add' a participant. When a verb occurs with these postpositional clitics, it is referred to as a 'derived applicative', which changes the object in the canonical case (postpositional phrase) into the absolutive case. The applicative derivation upgrades an optional oblique object in the canonical case to an obligatory object, and thereby increases an object argument without semantic change.

Furthermore, there is a change in syntactic order in the clauses of unaccusative verbs derived with benefactive-applicative. The beneficiary object argument in the absolutive case which is realized by the benefactive-applicative -f morpheme comes before the subject as O-S-V order, conversely with the usual Oromo S-O-V syntactic order, as shown in the examples (56) and (57):

- (56) a. *muk-ni č'ab-e*
 boy-NOM break INTR-3SG:M:PERF
 'The tree broke'
- b. *namičča muk-ni č'ab-ee-f*
 man:ABS boy-NOM break INTR-3SG:M:PERF-APPL
 'The tree broke for the man' (maybe the tree is too strong to break)
- (57) a. *muk-ni mur-am-e*
 tree-NOM cut-PASS-3SG:M:PERF
 'The tree was cut'
- b. *namičča muk-ni mur-am-ee-f*
 man:ABS tree-NOM cut-PASS-3SG:M:PERF-APPL
 'The tree was cut for the man'

3.2.2. Instrumental-Applicative Verb Derivation

The affixation of instrumental applicative phrasal verbs of the locative -itti are instrumental-applicative where the instrumental-applicative suffix -n occurs with the locative as *ittii-n*. However, suffixing some conjugational verbs with the instrumental -n is contextually applicable, or the verbal suffix with -n indicates an accusative verb, as shown in the chart in (7). Consider the following verbs and their corresponding instrumental-applicative locative phrasal verbs:

- | | <i>Simple (in)transitive</i> | <i>Instrumental Applicative</i> |
|---------|------------------------------|-----------------------------------|
| (58) a. | <i>bit-uu</i> 'to buy' | <i>bit-uu-nii</i> 'to buy with' |
| b. | <i>ban-uu</i> 'open' | <i>ban-uu-nii</i> 'to open with' |
| c. | <i>fid-uu</i> 'to bring' | <i>fid-uu-nii</i> 'to bring with' |

The combination of instrumental-applicative marking *ittii-n* and a verb is used to form an instrumental-applicative phrasal verb. The instrumental-applicative -n does usually suffix the postpositional locative *itti* to be *ittii-n*. When deriving instrumental-applicative, suffixing the locative is more common than suffixing the verb. Hence, the locative *itti* is a free morpheme combined with verb preverbally, as it is suffixed with the instrumental -n, and then the instrument-applicative is derived as a phrasal verb. It can derive from transitive or intransitive and from simple or derived verbs (see the detail in section 5.2.2). Consider the following verbs and their corresponding derived combinations with preverbal instrumental-applicative:

<i>Base verbs</i>	<i>Instrumental-applicative</i>
-------------------	---------------------------------

- (59) a. *bit-uu* 'to buy' *ittii-n bit-uu* 'to buy with'
 b. *ban-uu* 'open' *ittii-n ban-uu* 'to open with'
 c. *hid'-uu* 'to tie' *ittii-n hid'-uu* 'to tie with'

To indicate the instrument as a core argument, there should be both syntactic and morphological structures. Morphologically, the suffix *-n* occurs with the verb, with the verb combining locative *itti* or with the direct object in the absolutive form, as shown in (60):

- (60) a. *an-i balbala ban-e*
 me-NOM door: ABS open-1SG:PERF
 'I opened the door.'
- b. *an-i k'ulfii balbala ban-ee-n*
 me-NOM key:ABS door: ABS open-1SG:PERF-INST
 'I opened the door with a key (lit., I used a key for opening the door).'
- c. *an-i k'ulfii balbala ittii-n ban-e*
 me-NOM key: ABS door: ABS by-INST open-1SG:PERF
 'I opened the door with a key.'
- d. *an-i k'ulfii balbala-n ban-e*
 me-NOM key:ABS door-INST open-1SG:PERF
 'I opened the door with a key.'

3.2.3. The Preverbal Locative *tti* and *rra*

These postpositional clitics are locative *itti/tti* 'to/into/at', *irra* / *rra* 'on/ over' and locative-ablative *irraa* / *rraa* 'from/of' which are free morphemes used to combine with verbs preverbally to derive locative-applicative (hereafter, LOCAPL) and ablative-applicative (hereafter, ABLAPL) verbs. They are postpositions. Only the clitics with vowel *i* word-initially, such as *irra*, *itti* and *irraa*, usually occur as suffixes after nominal objects, all clitics when combine preverbally with verbs they are all free morphemes [18]. A nominal phrase in which a clitic occurs after a nominal object, it is a postpositional phrase (POSP) whose object is an indirect object, while a verb combined with the clitic is referred to as a verbal phrase whose entailed object is a direct object in the absolutive case [22].

- (61) a. *sinbirree-n muka-rra teet-te*
 bird-NOM tree-on:LOC sit-3SG:F:PERF [INTR]
 'The bird sat on the tree'
- b. *sinbirree-n muka irra teet-te*
 bird-NOM tree:ABS on sit-3SG:F:PERF [TR]
 'The bird sat on the tree'

In examples above, the sentences show intransitive and transitive sentences. The intransitive verb *taa'uu* 'to sit' syntactically marks locative case *-rra* suffix after the nominal object in the obligatory postpositional phrase, and the same clitic preverbally combines with the same verb, as shifts its suffixing nominal postposition to free preverbal combination, in order to be a transitive *irra taa'uu* 'to sit on, and thereby constructing the transitive sentence.

governing their object indirectly through something other than themselves (through a postposition). The combinations of postposition with certain verbs preverbally can express transitivity; here both transitive and intransitive verbs will be transitivized through such combinations [18].

- (62) a. *ani waaree namicha-tti bite* 'I bought a lunch for the man'
 b. *ani namicha waaree itti bite* 'I bought a lunch for the man'

The indirect object *namicha-tti* 'for man' in example (40a) is an adjunct, in which the the postpositional case clitic *-tti* suffix occurs in the noun *namičča* 'man'. In the underlined phrasal verb, the case clitic preverbally combine with verb as in (40b) *itti bituu* 'to buy for (s.o / s.th.)'. Thus, this combinational derivation has transformed an adjunct in the indirect object slot into an argument in the direct object position: hence the direct object appears in the absolutive case.

There is clearly a semantic requirement in Oromo for the verb in these examples to have an obligatory object / patient argument. The locative *-tti* postpositional clitic suffix is attached to the optional indirect object; thus the locative object is an optional recipient entity as shown in (62a); however, the following example in (63) illustrated an obligatory indirect object argument suffixed with the same locative *-tti* postposition in the underlined lexically specified postpositional phrase. Therefore, it should be noted that there are some postpositional phrases obligatorily entailed by the verb or optionally used independent of the verb, i.e. the obligatory POSP in (63) is an argument while the optional one in (62) is an adjunct.

- (63) *ani namičča-tti kitaaba erge* 'I sent a book to the man'

3.2.4. Preverbal Ablative-Applicative *irraâ*

The locative *irra* is a preverbal stem from which the ablative-applicative is derived. This happens through lengthening the word-final vowel of the locative *irra* as *irraâ*, in a high-low pitch tone. The process is through combining the preverbal postpositional clitic *irraâ* with the verb. Here is a list of some verbs and their ablative-applicative derivatives.

- | Underlying Verbs | Ablative-Applicative |
|---------------------------------|---------------------------------------------|
| (64) a. <i>bit-uu</i> 'to buy' | <i>irraâ bit-uu</i> 'to buy from (sb)' |
| b. <i>dubb-at-uu</i> 'to speak' | <i>irraâ ban-uu</i> 'to speak of (s.th.)' |
| c. <i>č'it-uu</i> 'to be cut' | <i>irraâ č'it-uu</i> 'to be cut of (s.th.)' |

In conclusion, the derivational strategies include root-syllable reduplication, inchoative, middle, causative, passive, benefactive-applicative, and instrumental-applicative morphemes. Due to historical phonological changes, according to my assumption, some morphology has become fusional, for example, the middle *-t* and the 1SG *-ɾ* are fused as *-tɾ* and involves glottalization and gemination [-d'd']; the inchoative-middle *-t* and *-h* with the causative *-s* are fused as *-ts* and *-hs* and involves fricativization and gemination [-ss], and involves and stem alternations; for example, a base *bad-* in *bad-uu* 'to disappear' is alternated in causative derivation to be *ball-* as in *ball-ees-s-uu* 'to destroy'.

Oromo grammarians recognize verbs are transitivized by

4 CONCLUSION

In this article, Oromo verb derivational processes that result in the valency increase are investigated. Two main subsections are projected as the causative, the applicative as well as middle derivations in accordance with valency-increasing device. For each of the processes it is important to distinguish between morphological derivations and analytic/periphrastic derivations. In the latter case, there may be an overlap with serial verb constructions and/or clause combining strategies such as complementation. It may probably lead us too far away to discuss the non-morphological constructions in detail, especially because it is not the aim of this thesis to focus on the analytic derivations. Indeed, Oromo employs periphrastic constructions as valency changing mechanisms, so it would be good to note this and to provide some illustrations, plus an indication of how frequently that type of construction is sometimes used. Hence, Oromo is a little bit isolating language and employs lexical substitution to express, for instance, causative and middle derivations.

A single causative with pattern CS1 (with -s suffix) is derived from underlying idiophone roots and from stative nominal base stems and stative base and derived intransitive verb stems. A double causative pattern CS2 (with -si(i)s suffix) is derived from underlying active intransitive and transitive (and bi-transitive) base stems and from derived MS (including inchoatives) and CS1. A factitive (a causative of causative) of the CS3 pattern (CS1-CS2 (with -si-siis suffix)) is derived from double causative stem CS2. The hierarchical increase starts with the pattern CS1 of the least valency structure code, follows with pattern CS2 and ends with the pattern CS1-CS2 of the highest hierarchy, which involves multiple direct objects.

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