

On some eccentric $*i$ -stems in Indo-European compounds

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1 Introduction

Some classic puzzles in PIE morphology are found in compounds, e.g., unexpected First Member of Compound (FMC)¹:

- Caland system: a primary adjective used as FMC is descriptively replaced by an adjectival abstract, usually an $*i$ -stem (Nussbaum 1976, 1999, Schindler 1986, Balles 2006, 2009, Rau 2009, Malzahn In press, etc.)

(1) Caland FMC

- a. Ved. $\dot{r}j\acute{r}á$ - ‘swift’ : $\dot{r}j\acute{i}\text{-}\acute{s}van$ - ‘having swift dogs’
- b. Av. $ti\acute{y}ra$ - ‘sharp’ : $ti\acute{z}i\text{-}ar\acute{s}ti$ - ‘having a sharp spear’
- c. Gk. $\kappa\bar{\upsilon}\delta\rho\acute{o}\varsigma$ ‘famous’ : $\kappa\bar{\upsilon}\delta\iota\text{-}\acute{\alpha}\nu\epsilon\iota\rho\alpha$ ‘making men famous’

Unexpected Second Member of Compound (SMC): masculine $*\bar{a}$ -stems in VGC in Greek and Latin (Fellner and Grestenberger Forthcoming):

(2) $*\bar{a}$ -stem VGC:

- a. Gk. $\beta\alpha\theta\upsilon\text{-}\delta\acute{\iota}\nu\eta\varsigma$ ‘deep-eddying’, $\beta\omicron\upsilon\text{-}\zeta\acute{\upsilon}\gamma\eta\varsigma$ ‘cattle-yoking, -yoker’
- b. Lat. *agri-cola* ‘country-dweller; farmer’, *lēge-rupa* ‘law-breaker’

Another puzzle: In some IE languages, an $*-o$ -stem (or $*-\bar{a}$ -stem) is replaced by an $*-i$ -stem SMC.

- unexpected SMC (cp. (2))
- appear to substitute for another stem (cp. (1))
- function not clear (generally claimed to be original to Bahuvrīhis: Jacobsohn 1928, Specht 1935, AiG II,1: 105, Uhlich 1993, Malzahn In press), but see the ex. below.

1.1 $-i$ - in compounds

(3) Latin

- a. *somnus* ‘sleep’ → *in-somnis* ‘sleepless’
- b. *iugum* ‘yoke’ → *bi-iugis* ‘with two yokes’
- c. *anima* ‘soul’ → *ex-animis* ‘soulless’
- d. *annus* ‘year’ → *per-ennis* ‘throughout the year; everlasting’

(4) Old Irish (Thurneysen 2003: 218)

- a. *cenél* ‘kind, race’ → *so-chenéuīl*
- b. *cenn* ‘head’ → *in-chinn* ‘brain’ (< $*en\text{-}k^u\text{-}enni$ - ‘in the head’)
- c. *galar* ‘disease’ → *ingalair* ‘sick’

(5) Greek

- a. $\acute{\alpha}\lambda\lambda\acute{\eta}$ ‘strength’ → $\acute{\alpha}\nu\text{-}\acute{\alpha}\lambda\lambda\text{-}\iota\text{-}\varsigma$ ‘without strength’

(6) Armenian (Olsen 1999: 709f.)

- a. *arat*, *-oy* ‘blemish, stain’ → *an-arat-ic^c* ‘unblemished, having no blemish’ (gen./dat./abl.pl.)
- b. *hawat*, *-oy* ‘faith’ → *an-hawat-ic^c* ‘unfaithful’

(7) Avestan

- a. *miθra* ‘Mitra’ → *auui-miθr-i* ‘against Mitra, enemy of Mitra’

¹I am very grateful to Stephanie Jamison, Alan Nussbaum and Georges-Jean Pinault for their comments and suggestions on a draft of this paper (Grestenberger To appear), parts of which were also presented at the 2015 World Sanskrit Conference in Bangkok. No endorsement is implied.

- b. *stāna*- m. ‘stable’, *uštrō-stāna*- m. ‘camel stable’ → *uštrō-stāni*- ‘camel stable’ (definite?)²
- c. *maēša*- m. ‘sheep’ → *daβra-maēši*- (personal name) ‘having fat sheep’ (Yt.13.122)

→ predominantly in possessive compounds (Bahuvrīhis) in Latin, Armenian, and Old Irish, but note the prepositional governing compounds in Old Irish

- Indo-Iranian: few *i*-Bahuvrīhis and therefore usually left aside in discussions of compositional *-i-* in SMC
- ... but quite a few VGC

- What is the function of *-i-* in Vedic SMC? Are there any corresponding (adjectival) *a*-stems?
- Why do *i*-stems turn up in *endocentric* compounds in Vedic, when the other languages tell us that *i*-SMC are preferred in *exocentric* compounds?

1.2 Background: the suffix *-i-* in Indo-European

“*i*-substitution” has also been observed for simplex **i*-stems (Schindler 1980, Nussbaum 1999, 2014, Weiss 1996, Balles 2006...) and is inherited from PIE.

(8) Derivation of *i*-stems in PIE

	1. Adjective	2. (m.) ‘substantivized’ adjective	3. (f.) abstract
PIE	<i>*h₂ékro-</i> ‘high’	<i>*h₂ó/ékri-</i> ‘high (one)’	<i>*h₂ó/ékri-</i> ‘height’
Ex.	Gk. ἄχρος ‘high’	Lat. <i>ocris</i> m. ‘mountain’	Gk. ἄχρις f. ‘peak’, Ved. ° <i>ásri-</i> f. ‘edge’

- The derivational basis of both substantivized adjectives and verbal abstracts was an **o*-adjective:

(9) Masc. substantivized adjectives

- a. Av. *tiγ-ra-* ‘pointed, sharp’ → *tiγ-ri-* m. ‘pointed thing; arrow’
- b. PIE **m_{nt}ó-* ‘protruding’ (Lat. *mentum* ‘chin’) → **mont-i-* ‘protruding (one)’ (Lat. *mōns* m. ‘mountain’)
- c. Ved. *jīrá-* ‘quick, lively’ → *jīri-* ‘stream’ (< ‘quick, lively one’); *jñátá-* ‘known’ → *jñátí-* m. ‘relative’

(10) Fem. abstracts

- a. Lat. *ravus* ‘hoarse’ → *ravis* f. ‘hoarseness’
- b. Gk. *argós* ‘bright, shining; fast’ → *argi-* ‘brightness’ (in compounds, cp. Ved. *ṛji-* in *ṛjī-śvan-* ‘having swift dogs’)
- c. OIr. *glan* ‘clear’ → *glain* f. ‘glass; clearness’ (Weiss 2013)

Semantics of (9): ‘masculine endocentric substantivizations’, comparable to definite adjectives in Germanic, Balto-Slavic, etc. (Nussbaum 2014)

- tend to develop into adjectives → semantic difference between adjectival base and (substantival) derivative not always clear-cut in the individual branches
- NB not clear how formally related *vṛddhi*-formations (patronyms, nouns of appurtenance) fit into this, e.g., *sarátha-* ‘(driving) the same chariot’ → *sáraṭhi-* m. ‘co-driver’, *agniveša-* personal name → *ágniveši-* ‘descendant of Agniveša’, *purukútsa-* → *paúrukutsi-*. Not treated here.
- NB accent/ablaut pattern of the substantivization not clear
 - Gk. ἄχρος ‘high’ vs. Lat. *ocris* m., Gk. ἄχρις f.; Lat. *mentum* ‘chin’ vs. *mōns* m. ‘mountain’ suggest original **o/e* acrostatic paradigms
 - ... while cases like Ved. *jīrá-* ‘quick, lively’ : *jīri-* ‘stream’, Gk. τροχός ‘running’ : τρόχλις ‘messenger’, etc., suggest that the root ablaut grade was determined by the base

- If the function of **i-* was to make endocentric substantivizations, why do we find it in *exocentric* compounds?
- Is there a difference in attributive vs. predicative use for *a-* vs. *i-*stems in Vedic?

²V.15.24; V.15 contains several other examples, e.g., V.15.27 *aspō.stānəm ... aspō.stāniš* ‘horse stable’, V.15.33 *pasuš.hastəm ... pasuš.hastiš* ‘*Pasu*-shed’, and V. 15.36 *yō aētəm uzdaēzəm uzdišta yejḥā vō aēšō uzdaēziš aḡhaṭ* (*daēza-* m. ‘heaping, raising’, *uz-daēza-* m. ‘heaping up, mound’ → *uz-daēzi-* m. ‘mound, wall’?), but is syntactically difficult. Tremblay 1998: 102 interprets the *i*-stems in V.15 as “concretizations” (*substance concrète*), i.e., endocentric substantivizations, and claims that Avestan has no “*i*-Bahuvrīhis” at all (p. 98).

2 Vedic: Bahuvrīhi compounds

The number of Vedic (and Ilr.) Bahuvrīhis with *i-* instead of *a-*stem SMC is small (AiG II,1: 105f.)³

- *°ardhi-*: *prāty-ardhi-* ‘possessing half of sth.; possessing equal parts’ (2x) vs. *ardhá-* a. ‘other (half)’, *árdha-* m. ‘half’
– RV 10.26.5a *prātyardhir yajñānām* ‘half-sharer of sacrifices’
Ilr., no etymology (*pace* Klingenschmitt 1980 not cognate with Lat. *orbis*, see Weiss 2006).
- *°gandhi-* ‘smelling of X’: *gandhá-* m. ‘smell, fragrance’; Ilr., no etymology.
su-gándhi- ‘having a pleasant fragrance; fragrant’ (2x)
– RV 7.59.12a-b: *triyambakaṃ yajāmahe sugāndhim puṣṭivārdhanam* “We sacrifice to Tryambaka the fragrant, increaser of prosperity”
āñjana-gandhi- ‘smelling of ointments’ (RV 10.146.5), *dhūmá-gandhi-* ‘smelling of smoke’ (RV 1.162.15a)
- *°rādhi-* in *kr̥ṣṭá-rādhi-* ‘successful in agriculture’ (AV 8.10.24), vs. *rādha-* ‘gift, bounty’ (2x RV, but *s-*stem *rādhas-* is much more common).
– AVŚ 8.10.24 *té kr̥ṣṭīm ca sasyám ca manuṣyā úpa jīvanti kr̥ṣṭárādhir upajīvanīyo bhavati yá evám véda* “upon those two, both cultivation and grain, men subsist; successful by what is cultivated (*kr̥ṣṭá-*), one to be subsisted upon, becometh he who knoweth thus.” (Whitney 1905: 514)

These are clearly different animals than Bahuvrīhis with a *synchronic i-*stem SMC, e.g., *agní-* m. ‘fire’ : *sv-agní-* a. ‘having a good fire’, *yóni-* m. ‘lap, seat, site’ : *diví-yóni-* a. ‘sky-born, whose seat is in the sky’, etc.

3 Vedic: verbal governing compounds

Synchronically, most Rigvedic compounds with an *i-*stem SMC are endocentric verbal governing compounds, with accent on the SMC → unexpected given the traditional “Bahuvrīhi-**i-*” generalization, but:

- Schindler 1997 (and in class): VGC with governing second member are diachronically Bahuvrīhis
– $\tau\alpha\chi\upsilon\text{-}\beta\acute{\alpha}\mu\omega\nu$ *‘with quick steps, having a quick step’ → ‘walking quickly’

So every *i-*SMC goes back to an old adjectival/verbal abstract? Not the best solution:

- No corresponding simplex adjectival/verbal **i-*abstracts (see below)
- No internally derived SMC (cp. *jānu-* n. ‘knee’ → *mitá-jñu-* ‘having straight knees’, *údhar* n., (gen. *údhnas*) → *tri-údhá* ‘having three udders’, etc.)
- Independent evidence from simplex nouns that one of the functions of **i-* was to make endocentric nouns

3.1 Oxytone, deverbal

3.1.1 *°tují-* ‘pushing, driving’

ā-tují- ‘pushing oneself towards’, 1x, predicative. No *a-*stem.

RV 7.66.18:

divó dhámabhir varuṇamitrás cá yātam adrúhā |

pībatam sómam ātují ||
“From heaven through your domains, o Varuṇa and Mitra, you who are without deception – travel here. Drink the soma, thrusting yourselves toward it.”

Cp. *tūtují-* ‘driving repeatedly, hurrying’ vs. *tūtíjī-* (m.) ‘driver, inciter, pusher’ in RV 10.22.3b *mahó nṛmṇásya tūtujíḥ* ‘inciter of great manliness’ (Grestenberger 2013)

3.1.2 *°yají-* ‘sacrificing’

ā-yají- ‘sacrificing, sacrificer’, Jamison and Brereton 2014 ‘win (goods) by sacrifice’, 2x, predicative, e.g.:

RV 1.28.7:

āyají vājasátamātá h₁y uccá vijarbhṛtāḥ |

hārī ’vándhāmsi bāpsatā ||
“These two [=mortar and pestle? / jaws of the soma press?] gain by sacrifice and are the best prizewinners, since they keep pulling apart above, chewing the stalks like a pair of fallow bays.”

No *a-*stem; cp. the root noun in, e.g., *su-yáj-* ‘sacrificing well’, *divi-yáj-* ‘sacrificing in the light of day’, etc.

³All translations from Jamison and Brereton 2014 except where indicated.

3.2 Paroxytone, denominal/deverbal

3.2.1 *°tani-* ‘spanning, stretching’

ā-tāni- ‘pervading, stretching out’, 1x, predicative. Also Ved. *tāna-* adj. ‘spanning, continuing’, n. ‘offspring’ (< ‘that which stretches out, spans’), *tān-* a. ‘continuous, pervasive’, f. ‘continuity’ (also ‘offspring’). Synchronically deverbal (*ā tan* ‘stretch (out), span sth.’).

RV 2.1.10d: *t_uvām viśíkṣur asi yajñām ātāniḥ ||*
“You seek to carve up and to stretch out the sacrifice.”

3.2.2 *°bhari-* ‘bringing, -bringer’

saho-bhāri- ‘bringing victory’, 1x, predicative:

RV 5.44.3: *ātyam havīḥ sacate sác ca dhātu ca úriṣṭagātuḥ sá hótā saho**bhāriḥ** |*
prasārsraṇo ánu barhír vṛṣā sísur mádhye yúvā ajáro visrúhā hitāḥ ||
“The steed does the oblation follow (and) its [=oblation’s] elements are true; the Hotar who goes without harm brings might. Always stretching out along the ritual grass, the bullish child, the unaging youth is placed in the middle with his outgrowth.”

(11) Compounds in *°bhará-*:

- antarā-bhará-* ‘bringing near’: RV 8.21.12b-c: attributive: *dānavam antarābharāḥ índro ...* “(Indra) who has gifts and brings them near”
- puṣṭim-bhará-* ‘bringing growth, prosperity’: RV 4.3.7a, attributive: *kathá mahé puṣṭimbharāya pūṣṇé* “How (will you speak) to great Pūṣan who brings prosperity, ...?”
- vājam-bhará-* ‘bringing prizes’, e.g., RV 10.80.1a, attributive: *agnéḥ sáptim vājambharām dadāti* “Agni gives a prize-bringing team”

- Attributive use prevails with *°bhará-*, vs. only instance of *°bhari-* = predicative (not enough for a generalization)
- but: paroxytone accent unexpected if this is a substantivization of the accented *a*-stem, whereas *bhāra-* m ‘(act of) bearing, carrying off; gains, plunder’ is an unlikely derivational basis
- Why *°bhará-* and *°bhṛ-t-*? *pítu-bhṛt-* ‘bringing nourishment’, *vajra-bhṛt-* ‘Vajra-carrying’, etc. (NB shape of the FMC → stem- rather than root-derived, cp. Schindler 1997 on *agnim-indhá-* ‘lighting the fire’, etc.)

3.2.3 *°mathi-* ‘robbing, stealing’

No *a*-stem; root noun *máth-* in *sunirmáthā*, RV 3.29.12. *havir-máthi-* ‘oblation-stealing’, 1x, appositional (RV 7.104.21a-b:), *urā-máthi-* ‘sheep-robbing’, 1x, predicative/appositional (RV 8.66.8), *vastra-máthi-* ‘robbing clothes’, 1x, attributive (RV 4.38.5).

RV 8.66.8a-b: *vṛkaś cid asya vāraṇá urāmáthir á vayúneṣu bhūṣati |*
“Even a wolf – wild and sheep-stealing – attends to its own patterns”

3.2.4 *°muri-* ‘obstructing’

ā-múri- ‘obstructing, one who obstructs’, 1x, predicative/appositional (RV 8.97.10). No *a*-stem, but root noun *múr-* (also *āmúr-*) ‘obstruction, hindrance’⁴

3.2.5 *°rakṣi-* ‘protecting’

pathi-rákṣi- ‘path-protector’, 1x, predicative:

RV 10.14.11a-b: *yáu te śuvánau yama rakṣitárau caturakṣáu pathirákṣī nṛcákṣasau |*
“Your two dogs, Yama, who are guardians, four-eyed guards of the path with their eyes on men ...”

paśu-rákṣi- ‘shepherd; cattle-protector’, 1x, substantive. No *a*-stem (secondary *seṭ* root? Scarlata 1999: 443f.).

⁴NB *°muri-* cannot have come from the root noun paradigm by regular sound change, cp. Grestenberger 2014 and more generally Klingenschmitt 1980, Jamison 1988 for arguments against such an analysis.

3.2.6 °vani- ‘winning, gaining’

upamāti-vāni- ‘winning the distributions’, 1x, predicative (RV 5.41.16); *ṛju-vāni-* ‘obtaining the right things; rightfully’, 1x, appositional (predicative?):

RV 5.41.15c-d: sīśaktu mātā mahī rasā nah smāt sūrībhīr ṛjuhāsta **rjuvāniḥ** ||
“Let the mother, the great Rasā, accompany us along with our patrons, she
with hands outstretched, with winnings outstretched.”

SMC = *vanī-* f. ‘wish, desire’ (AV)? Unlikely because of accent & semantics⁵; ‘winning rightfully’ for RV 5.41.15 just as good and more in line with *vṛṣṭi-vāni-* ‘winning rain’, 1x, attributive (RV 10.98.7c-d), *vasuvāni-* ‘winning goods’, 1x, predicative.

RV 7.1.23c-d: sā devātā **vasuvāniṃ** dadhāti yam sūrīr arthī pṛchāmāna éti ||
“He [=Agni or the mortal] establishes him [=the mortal or Agni] as one who gains
goods among the gods, the one to whom the inquiring patron goes, seeking his ends.”

3.2.7 °sani- ‘winning’

pitu-śāni- ‘winning sustenance’, 1x, predicative; *vāja-sāni-* ‘winning prizes’, 3x, predicative/appositional (RV 3.51.2, 9.110.11) & attributive (RV 10.91.15):

hṛdañ-sāni- ‘winning someone’s heart’, 1x, predicative (RV 9.61.14c *yá índrasya hṛdamśāniḥ* ‘who gains the heart of Indra’); *go-śāni-* ‘winning cows’, 1x, predicative.

RV 6.53.10: utá no **gośāniṃ dhīyam** aśvasām vājasām utá |
nrvát **kṛṇuhi** vītāye ||
“And make our poetic vision cow-winning for us, horse-winning, and prizewinning,
make it manfully to be pursued.”

Also *sāna-*: *su-śāna-* ‘easy to win’ in RV 1.42.6c *dhánāni suśānā kṛdhi* ‘make the stakes easy for us to win.’

- Accent and meaning make identification of the SMC with *sani-* m. ‘prize, thing won, plunder’ unlikely (but see Scarlata 1999: 582)
- ... but note the *passive* reading of *su-śāna-*!
- Cp. compounds with roon noun *sā-*, e.g., *aśva-sā-* ‘winning horses’, *go-śā-* besides *go-śāni-*, etc. (unlikely that the *i*-stem paradigm comes from that of the root noun, cp. Scarlata 1999: 577ff.)

3.2.8 °svani- ‘roaring, sounding’

tuvi-ṣvāni- ‘resounding mightily’, 7x, usually predicative/appositional, e.g.:

RV 1.127.6a **sá** hí sárdho ná mārutaṃ **tuviṣvāniṃ**
“For he is very noisy like the Marut troop, ...”

mahiṣvāni- ‘roaring greatly’, 1x substantival, RV 8.46.18. Also *a*-stem *svaná-* m. ‘roaring, thundering, thunder’ (14x), cp. *vāta-svana-* ‘roaring like the wind’ (RV 8.102.5, attributive)

3.2.9 °dari- ‘splitting, splitter’

go-dari- ‘cow-splitter’ (epithet of Indra), 1x in RV 8.92.11, besides °*dará-* ‘splitting, splitter’: *purāñ-darā-* ‘fortress-splitter’ (epithet of Indra; Agni), 11x, always with inflected noun as first member of compound (FMC), substantival/predicative, e.g.:

RV 8.1.8a-b: prásmāi gāyatrām arcata vāvátur **yáh purāñdaráh** |
“Chant forth a song to him who cleaves strongholds for his favorite”

- Also *ā-darā-* (+ gen) ‘one who opens, makes accessible’ (RV 1.46.5), < **dor-ó-*? (originally *anī-*, EWA I: 701f.)
- °*dari-*, °*dara-*: lack of Lex Brugmann suggests *e*-grade of the root (*seṭ* variant unlikely because the first syllable is never heavy; and see °*duri-* below)

⁵Root $\sqrt{vanī}$ ‘wish’ rather than \sqrt{van} ‘win’, but those are notoriously difficult to distinguish and *van* ‘win’ develops *seṭ* behavior in analogy with *sani* ‘win’. Scarlata 1999 notes that the first syllable of °*vani-* is heavy in RV 5.41.15 and 5.41.16, and probably also in 7.1.23 and 10.98.7, suggesting a preform * yo/enH-i- .

3.3 Denominal

3.3.1 °duri- ‘splitting’

ā-duri-, personal name in voc. (‘one who splits open, makes accessible’, RV 4.30.24), EWA I: 703: < *°*dr̥H-i-* (vs. *aniṭ-* version *dari-*?). Also RV *durá-* m. ‘breaker, splitter’, RV 1.53.2 (+gen., EWA I: 732).

- Ved. *ádri-* m. ‘rock’ < *°*n̥-dr-i* ‘not splitting’? (cp. EWA I: 65) Would be a nice contrast to full grade (*aniṭ!*) °*dari-*, but too uncertain.

3.3.2 °dhi- ‘place, placement’

°*dhi-* is found in SMC of Tatpuruṣa compounds and belongs to *dhā* ‘put, place’, e.g. *ādhí-* m ‘deposit’, *paridhí-* m ‘enclosure’, *apidhí-* m ‘cover’, *udadhí-* m ‘water container; cloud’, etc.

- More likely an original *i*-stem **d^hh₁-i-* than from the root noun *dhā-* (cp. Jamison 1988)
- Derivational basis **d^hh₁-ó-* may be attested in, e.g., AV *nāma-dhā-* ‘name-giving’ (but RV *nāma-dhā-*), *ratna-dhā-* ‘allocating goods’ (besides more common *ratna-dhā-*) and maybe Gk. ἀγαθός ‘good’ (< *°*m̥gh₂-d^hh₁-ó-*, NIL: 100)
- Derivation: X-*d^hh₁-ó-* ‘placing, setting down X’ → X-*d^hh₁-i-* ‘X-place, X-placement’

3.3.3 °gri-

tuvi-gri-, epithet of Indra, besides *tuvi-grá-* (both hapax in the RV) < *tuvi* ‘strong, much’ + *°*g^urh₃-o/i-* ‘much-devouring’? (EWA I: I, 659, *°*g^uerh₃* ‘devour’; loss of the laryngeal through the *veoγvóς*-rule, cp. Mayrhofer 2005: 98ff.). Geldner 1951 ‘laut schreiend, lautrufend’ (‘yelling loudly’), Jamison and Brereton 2014 ‘powerfully spirited’ (°*vigrá-* ‘lively, strong’?) for both instances.

RV 2.21.2: abhibhúve abhibhaigāya vanvate áṣālhāya sáhamānāya vedhāse |
tuvigrāye váhnaye duṣṭárītave satrásāhe náma índrāya vocata ||
 “To him dominating, breaking, conquering, to the never overpowered, overpowering adept; to him, the powerfully spirited draught horse, impossible to surpass; to him overpowering in every way—to Indra speak homage.”

RV 1.140.9a-b: adhivāsám pári mātú rihánn áha **tuvigrébbhiḥ sátvabhír** yāti ví jrāyaḥ |
 “Licking all around his mother’s [=earth’s] over-garment, he drives across the expanse with his powerfully spirited warriors, ...”

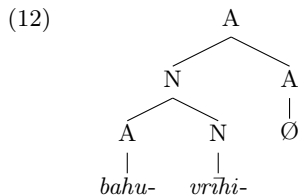
No metrical reason for the variation, both instances occur at the beginning of a Jagatī line. Both attributive.

4 Conclusion

- Only a small group of Vedic compounds with *i*-stem SMC are synchronically Bahuvrīhis
- Neither these nor the VGC usually have a corresponding simplex *i*-stem. Exceptions:
 - *saní-* m. vs. °*sáni-* (*rābhi-* f. ‘pillar, support’ vs. °*rabhí-* in *su-rabhí-* ‘fragant’?)
- A few are matched by a synchronic simplex (or SMC) *a*-stem:
 - All Bahuvrīhis, as expected: °*ardhi-* : *árdha-*, °*gandhi-* : *gandhá-*, *rādhī-* : *rādha-* (?)
 - 6/12 VGC: °*táni-* : *tána-*, °*bhári-* : °*bhará-* (or rather *bhāra-* m. ?), °*sáni-* : °*sána-* (?), °*sváni-* : (°)*svaná-*, °*dari* : °*dará-*, °*duri-* : *durá-*, and probably also °*dhi-* : °*dhá-*, °*grí-* : °*grá-*.
- predicative (or “non-attributive”) use prevails for the VGC in *-i-*; if a comparable *a*-stem exists, it seems to be used attributively — but there are not many examples; given metrical considerations, etc., this should not be overstated.

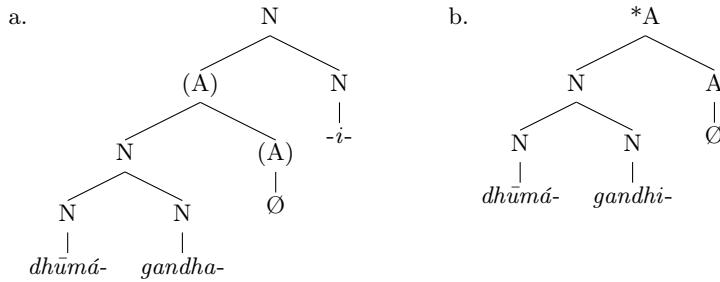
4.1 Analysis: Bahuvrīhis

Structure of Bahuvrīhis (cp. Baker and Bobaljik 2002, Fellner 2011):

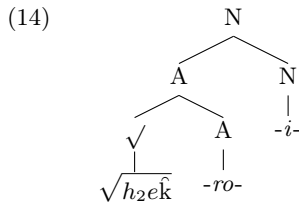


... but the structure for Bahuvr̥his with “*i*-substitution” must be (13-a), NOT (13-b):

(13) *i*-Bahuvr̥his



- ... because there’s no simplex **gandhi-*
- *-i-* is a derivational suffix that selects *nominal stems* (originally adjectives (?); I use “A” for convenience’ sake here)
- (13-a) is descriptively *endocentric* (*-i-* is the head)
- Note that this also gives us the structure for the corresponding simplex nouns (also endocentric):

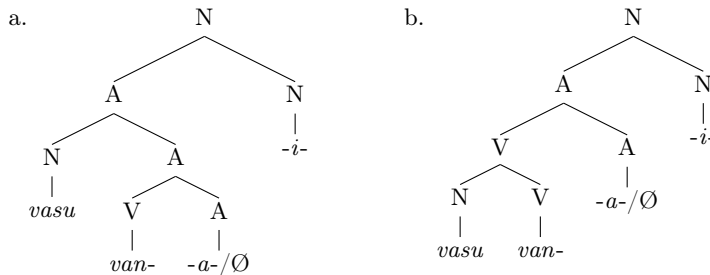


- Additional assumption for (early?) PIE: phonological rule that deletes/suppresses the theme vowel before *-i-*

4.2 VGC

Structure of VGC: two possibilities:

(15) Two types of VGC



- (15-a): [vasu] + [vana] + *-i-*
- (15-b): [vasu van-] + *-a-* + *-i-*, the nominalizer (“A”) attaches to the verb phrase (verb + direct object), cp. Harley 2009 on Engl. *truck-driver* compounds (where A = nP)
- *-i-* selects category A in both cases

Can we decide between these two structures?

- Preverbs: [*ā tuj*]_V + *-i-*, [*ā yaj*] + *-i-* → (15-b)
 - Preverbs start out close to the root/verbal stem; they don’t combine with nouns
- Structure of the FMC: *vājam-bhará-* vs. *vāja-sani-*:
 - Cp. *dhanam-jayá-* ‘conquering wealth’, *apsu-śád-* ‘dwelling in the waters’, cp. AiG II,1: 45f.; the SMC = participle (*vel sim.*), Schindler 1997: derived from the verbal stem rather than the verbal root
 - Harley 2009: (bare) noun incorporation (nP instead of DP) suggests (15-b). Case, number inflection on FMC a diagnostic for (15-a)? Problem: no clear generalization here; and some FMC are formally ambiguous
- Ablaut grade of the SMC (Alan Nussbaum, p.c.):
 - Full grade: *°yajī-*, *°bhari-*, *°tani-*, *°vani-*, *°sani-*, *°svani-*, *°dari-* → (15-a)?
 - Zero grade: *°tujī-*, *°mathi-*, *°muri-*, *°gr̥bhi-*, *°duri-*, *°dhi-*, *°gri-* → (15-b)?

4.3 Exo- or endo-?

- If *-i- was some kind of definiteness marker/derivational nominalizing suffix that originally selected “A”, the question becomes moot → (13-a), (14) and (15) are identical w.r.t. this selectional criterion.
- In that sense, *-i- in SMC of Bahuvr̥his is not necessarily more archaic than in VGC (see Vedic)
- And note that (13-a) and (15-a) are structurally fairly similar—if the SMC was reanalyzed as abstract noun rather than agentive participle (or vice versa), we get the exo- ⇔ endo-ambiguity that Schindler famously remarked on.

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