

Hittite pai-/pi- 'to give'

The Hittite verb *pai-/pi-* 'to give' is inflected as follows:

pres.		pret.	
1sg.	pehhi	1sg.	pehhun
2sg.	paitti	2sg.	paitta
3sg.	pāi	3sg.	pais
1pl.	piueni	1pl.	piùen
2pl.	pisteni	2pl.	*pisten
3pl.	pianzi	3pl.	pijer

Regarding its etymology, consensus seems to have been reached. The verb is generally explained as a univerbation of a preverb *pe- (or *poi-) followed by a root * $(h_1)ai$ - or *(H)ei-, which is connected with TochB ai-, TochA e- 'to give' and Gk. aivouat 'to take'. For instance, Oettinger (1979: 470) reconstructs * $pói + h_{1,3}oi$ -, and Melchert (1989: 44) gives *pe + ai-. The latter argues that the same root is found in Lyc. ije- and HLuw. ijasa- 'to buy' as well.

Nevertheless, this etymology is problematic in several respects. First, the exact reconstruction of the root is unclear. Gk. αi - quite unambiguously points to a pre-form $*h_2ei$ -, which would nicely fit the Tocharian forms as well. For Hittite, however, a root $*h_2ei$ - is impossible if we assume that the preceeding preverb ends in a vowel (*pe or *poi-), because intervocalic $*h_2$ remains as -hh- (e.g. $*peh_2ur > pahhur$ 'fire'). A preform $*pe-h_2oi$ - should thus have given Hitt. **pahhai-. This seems to be the main reason why Melchert (1994: 7) assumes a root *ai-, LIV² (229) reconstructs $*h_1ai$ - and Adams (1999: 100) gives $*h_4ei$ -.

Furthermore, if the Lyc. and HLuw. forms are indeed cognate, we would have expected that a formation $*h_2i$ - $\underline{i}e/o$ - would have yielded Lyc. **xije- and Luw. $**hi\underline{i}a$ -, instead of attested ije- and $\underline{i}\underline{i}asa$ -.²

Another problem regarding the generally accepted reconstruction, is the form of the assumed preverb, which is given as *pe- or *poi-. Although such a preverb poses no problem for the strong stem, which shows pai-, the plural forms $pi\underline{u}eni$, pisteni and pianzi are quite difficult to explain from a sequence *poi-(H)i- or *pe-(H)i-. This can be nicely demonstrated by looking at the paradigm of the verb pai- 'to go', which is generally reconstructed as *pe+ $h_1(e)i$ - or *po+ $h_1(e)i$ -:

pres.	pret.	
1sg. <i>paimi</i>	1sg. pāun (< *pai̯un)	
2sg. paisi	2sg. paitta (sec. for *pais)	
3sg. paizzi	3sg. pait	
1pl. paiuani, paiueni	1pl. <i>paiuen</i>	
2pl. paitteni, paittani	2pl. *paitten	
3pl. $p\bar{a}nzi$ (<* $pa\dot{a}anzi$)	3pl. pāir (< *pai̯er)	

In this verb the singular as well as the plural stem is pai-, which indicates that the full grade form *po- h_1ei - as well as the zero grade form *po- h_1i - both yielded Hitt. pai-. In the case of pai-/pi- 'to give', it is therefore impossible to assume that the weak stem was *pe-(H)i- or *poi-(H)i-, as these would not have given pi-, but **pai-.

Consequently, if pai-/pi- reflects some kind of univerbation, it cannot contain a preverb *pe- or poi-. If, however, we still want to assume that pai-/pi- is a univerbated verb, we can only assume that it contained a preverb *p- without any vowel. This would be the only way to formally explain the outcome pai-<*p-(H)oi- besides pi-<*p-(H)i-.

This analysis could have the benefit of the fact that in principle the colour of a laryngeal would be invisible, as laryngeals drop between a consonant and a vowel (e.g. paltana- 'shoulder' < *plth2eno-).

All in all, we have to conclude that, from a formal point of view, a connection between Hitt. $p\bar{a}i$, pianzi and TochB ai-, TochA e- and Gk. $\alpha i \nu \bar{\nu} \mu \alpha i$ would only be possible if we interpret the Hittite material as reflecting *p- h_2oi -, *p- h_2i -. This implies that the connection with Lyc. ije- and HLuw. ijasa- must be given up, if indeed the laryngeal of a preform * h_2ije - should have left a trace in Lyc. and Luw.

This formal reconstruction yields another problem: what kind of preverb is this *p- exactly?

¹ I do not accept the existence of a fourth PIE laryngeal (i.e. a-colouring but not giving h in Hittite), nor the existence of a PIE vowel *a (cf. Lubotsky 1989).

² Admittedly, I do not know another word in Lyc. or Luw. that reflects $*h_2(i)iV$. One might therefore argue that $*h_2$ - is lost in such a cluster.

In Hittite we find two preverbs beginning with *p*:

*po- in pai- 'to go' (paizzi < *po- h_1 eiti, pānzi < *paianzi < *po- h_1 ienti)³

*pe- in pedā- 'to bring' (*pe-deh₃-), pehutē- 'to lead' (*pe- h_2u - d^heh_1 -?), penna/i- 'to lead, to drive' (pe-noiH-), pēssija- 'to throw away' (*pe- h_1 s-je/o-), pejē- 'to send' (*pe- h_1 ie h_1 -), pe(-)hark- 'to hold (ready)' (*pe h_2 erk-).

It is striking that all these verbs have a counterpart starting with the preverb u-:

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pai- 'to go': u\bar{u}a- 'to come'ped\bar{a}- 'to take (away)': ud\bar{a}- 'to take (here)'pehut\bar{e}- 'to lead away': u\bar{u}at\bar{e}- 'to lead here'penna/i- 'to lead away, to drive': \bar{u}nna/i- 'to lead here'p\bar{e}ssi\bar{u}a- 'to throw away': \bar{u}ssi\bar{u}a- 'to throw'pei\bar{e}- 'to send (away)': u\bar{e}- 'to send (here)'
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The verb *pe hark*- is the only verb not showing an *u*-counterpart. This is well explained by the observation that the univerbation of *pe* and *hark*- is very recent. In fact, we see the univerbation happen before our eyes. The older texts show *pe hark*- with a word space, whereas in the younger texts we find *pehark*- without a word space. The etymological interpretation of *uuatē*- 'to lead here' is rather unclear (especially with regard to its connection with *pehutē*-).

Some of these pairs must be quite recent creations. In the case of pe(-)hark- we have already seen that the univerbation happens in the texts themselves, but also $pehut\bar{e}$ - must be a recent formation, because of the non-colouring of e by h.

The pair pai-/uua- 'go/come', however, seems to be quite old. This is clear from the fact that uua-, which must reflect $*h_2ou$ - $h_1(e)i$ -, was at a certain point reinterpreted as an *-u-ie/o-verb, showing a 1sg.pres. uuami instead of the expected **uu $\bar{e}mi < *h_2ou$ - h_1eimi). This must have happened at a fairly early stage. Besides, pai-/uua- is the only pair that has cognates in the other Anatolian languages, viz. in HLuw. pa- 'to

go': áwa/i- 'to come'. This proves that this pair was PAnat. already, whereas the other univerbations possibly took place in pre-Hittite only.

If we compare this information about the univerbated verbs with the situation of pai-/pi- 'to give', we find some remarkable differences. Firstly, pai-/pi- does not have a u-counterpart. Secondly, pai-/pi-would, if univerbated, show a preverb *p- that contrasts with the *po- or *pe- of the other verbs. Thirdly, pai-/pi- has many cognates in the other Anatolian languages (CLuw. pija- 'to give', HLuw. pija- 'to give', Lyc. pije- 'to give'), whereas all the other univerbated verbs (except pai-/uua- 'go/come') are found in Hittite only.

Additionally, there are some arguments that really speak against an interpretation of pai-/pi- as a univerbation. For instance, in the other Anatolian languages we often find reduplicated formations of this verb: CLuw. pipisa-, HLuw. pipasa-, Lyc. pibi(je)- 'to give'. It seems quite improbable to me that an original preverb would get reduplicated. Besides, we find the Hittite verb uppai- 'to send forth', that according to Oettinger (1979: 489) is to be analysed as u-+ pai- 'to give'. A pe-variant may be present in the hapax pipessar 'gift' (parallel to uppessar 'gift'). It seems improbable to me that an original univerbated verb would have attracted another preverb.⁵

All in all, I conclude that it is unlikely that pai-/pi- reflects a univerbated verb. We should rather analyse pai-/pi- as a genuine stem, of which the p- is an inherent part. This means that the connection with TochB ai-, TochA e- and Gk. $\alpha i \nu \nu \mu \alpha i$ is untenable. The connection with Lyc. ije- and HLuw. ijasa- 'to buy' then must be given up, too.

If not a univerbated verb, how should *pai-/pi-* then be interpreted etymologically?

When we look at the inflection of pai-/pi-, it is clear that it belongs to the $d\bar{a}i/ti\dot{a}nzi$ -type, of which the best-known exponent is dai-/ti- 'to

³ Melchert (1994: 177), however, claims that pai- shows a preverb *pe- of which the *e is coloured to a due to the following cluster * h_1i -. This assumption is contradicted by $pei\bar{e}$ - < *pe- h_1ieh_1 -.

Note that in CLuw. we find $a y \bar{\imath}$ - 'to come', but beside this only i- 'to go', without a *po-preverb.

⁵ Nevertheless, something similar could have happened in *pehutē*- if it reflects $*pe-h_2u-d^heh_1$ -. This verb, however, is probably a very recent formation.

put'. Although small, this is a rather distinctive class within the hi-conjugation. It is characterized by showing a strong stem Cai- (regularly becoming Ce- in front of -h-: Cehhi, Cehhun) besides a weak stem Ci-. The class contains the following verbs: ar(a)i- 'to (a)rise', d(a)i- 'to put', halz(a)i- 'to scream', huu(a)i- 'to run', ish(a)i- 'to bind', isham(a)i- 'to sing', isp(a)i- 'to be satiated', m(a)i- 'to grow', p(a)i- 'to give', par(a)i- 'to blow', paripar(a)i- 'to blow', pitt(a)i- 'to run, to flee', s(a)i- 'to press, to seal', z(a)i- 'to cross'.

Of this class, only one verb can be regarded as showing an original root ending in -i-, viz. $m\bar{a}i$, miianzi 'to grow', which has to be reconstructed as *moHi-ei, *mHi-enti on inner-Hittite grounds. 7 The other verbs (which all have good IE etymologies, except p(a)i- 'to give' and z(a)i- 'to cross') reflect IE roots that did not end in an -i-. We therefore have to assume some kind of -i-suffix or -extension: d(a)i- 'to put' must reflect * d^heh_1 - + -i-, isp(a)i- 'to be satiated' reflects * $speh_1$ - + -i-, huu(a)i- 'to run' < * h_2ueh_1 - + -i-, etc.

There are some slight differences in the etymological interpretation of this category. Oettinger (1979: 461), for instance, reconstructs $isp\bar{a}i$ as $*spoh_1i-ei^3$, whereas Melchert (1984: 73; 1994a: 65) reconstructs $d\bar{a}i$ as $*d^heh_1i-ei$. Consensus, however, has it that the Hittite ablaut originally took place in the root, whereas the formant -i- is unchanged, as is explicitly stated by Jasanoff (2003: 99): "The apophonic alternation that underlies Hitt. $d\bar{a}i$: tiyanzi must have taken place entirely within the root syllable; the *-i- was a mere pendant to the root proper", which implies an analysis *CoH-i-ei, *CH-i-enti. Such a reconstruction indeed would formally work for roots that end in laryngeals since $*Coh_{1/3}-i-ei$ would regularly yield $C\bar{a}i$, and $*Ch_{1/3}-i-enti > Cijanzi$.

Although formally this interpretation would work for the larger part of the verbs in this class, two of them show that we have to interpret the ablaut differently. These two verbs are ar(a)i- 'to (a)rise' and halz(a)i- 'to scream'.

'The verb arāi, ariianzi is generally connected with PIE *h3er- 'to move upwards'. If we apply to this root the principle that the ablaut took place in the root only (*CoCi-ei besides *CCi-enti), we would expect a form *h₃or-i-ei for the singular. Such a form, however, would yleld Hitt. **ari, not attested arāi. This was seen by Oettinger (2002: XXVIII) too, and he therefore reconstructs arāi as *h₃rói-ei. Oet-Unger repeats this reconstruction in 2004: 402, but states there that the underlying root was $*h_3rei$ - (as in Lat. oritur). For halz(a)i- 'to scream' he gives a similar analysis. This verb is connected with Goth. labon 'to call' by Puhvel (1991: 63), from a root * h_2 let-. In order to explain the Hitt. forms halzāi, halzijanzi, Oettinger (2002: XXVIII; 2004: 400) reconstructs *h₂ltói-ei, *h₂lti-énti. He seems to assume that we are deal-Ing here with a root $*h_2ltei$ - (an extension of $*h_2let$ -), but this is an impossible root-structure according to the PIE rules. Nevertheless, I think that Oettinger's formal reconstruction is undoubtedly correct, but his morphological interpretation has to be slightly adapted. Instead of assuming a root h_2 ltei-, I would rather argue that we are dealing with the zero grade of the root $*h_2let$ -, followed by an ablauting suffix *-oi-/-i-: * h_2 lt-oi-ei, * h_2 lt-i-enti.

In my view, all verbs of the $d\bar{a}i/ti\dot{a}nzi$ -class (except $m\bar{a}i$, $mi\dot{a}nzi$) are formed in the same manner as $*h_2lt$ - $\acute{o}i$ -ei, $*h_2lt$ -i- $\acute{e}nti$: the class shows a formation with zero grade in the root, followed by an ablauting -oi-/-i-suffix: *CC- $\acute{o}i$ -ei, *CC- $\acute{e}nti$. I therefore reconstruct $d\bar{a}i$, $ti\dot{a}nzi$ as $*d^hh_1$ - $\acute{o}i$ -ei, $*d^hh_1$ -i- $\acute{e}nti$, 9 and $isp\bar{a}i$, $ispi\dot{a}nzi$ as $*sph_1$ - $\acute{o}i$ -ei, $*sph_1$ -i- $\acute{e}nti$, 1 0 etc.

⁶ Often, this class is regarded as showing *Cai-/Ciia-*. This is incorrect. The weak stem is *Ci-* as can be seen in e.g. 1pl.pres.act. *halziuani* 'we scream', 2pl.imp.act. *ispisten* 'you must be satiated', etc. The forms with a stem *Ciia-* belong to the secondary *mi-*inflected thematizations on the basis of the false interpretation of 3pl.pres. *Ci-anzi* as *Ciia-nzi* (e.g. *halziiasi*, *halziiaueni*).

⁷ The laryngeal in the root is necessary to explain Lûmaiant- 'adult' < *moHi-ent- (*moj-ent- would have given Hitt. **mānt-).

⁸ Oettinger (1979: 460) takes $d\bar{a}i$: $ti\underline{i}anzi$ to have arisen secondarily. In his view, 3sg.pres. $*(d^he^-)d^h\acute{o}h_1$ -ei> Hitt. $d\bar{a}i$, whereas he regards 3pl.pres. $ti\underline{i}anzi$ to be a reshaping of regular **danzi, but cf. note 9.

⁹ Also Oettinger (2004: 401) states: 'Ebenso dürfte heth. 3.Sg. $d\bar{a}i$: Pl. t(i)y-anzi "ponit" im Prinzip auf voruranatolisches * $d^hh_i\phi y$ -e+i zurückgehen'.

Prof. Lubotsky draws my attention to the fact that a reconstruction *sph₁-ói-e would perfectly explain Skt. sphāya-ie 'to become fat', whereas the common reconstruction *speh₁-ie- cannot account for the aspiration of -ph-. The class of -āya-presents to which sphāya- belongs is notorious for its unclear origin (cf. Kulikov 2001: 13). I intend to investigate on another occasion whether other verbs of this class could reflect *CC-ói-e as well.

In my view, this class is the hi-variant of the athematic i-presents as found in e.g. Skt. k, $\dot{\epsilon}$, \dot

Applying this newly gained information about the $d\bar{a}i/ti\bar{i}anzi$ -class, we can interpret pai-/pi- 'to give' in two ways: either the verb reflects a root *Pei- (like *meHi-), or it shows a formation *P-oi-/-i- (like the other verbs). In the latter case, the root could either be *PeH- (like * d^hh_1 -oi- of a root * d^heh_1 -) or *HeP- (like * h_3r -oi- of a root * h_3er -).

In order to establish a possible etymology, I have collected the roots listed in LIV² that show one of these structures, and valued their potential for a semantical connection:

*Pei-: *bheiH- 'schlagen', *peh₁i- 'tadeln, schmähen', *peiH- 'an-schwellen', *peiH- 'singen'.

*PeH-: *bheh₁- 'wärmen', *bheh₂- 'glänzen, leuchten', *bheh₂- 'sagen, sprechen', *peH- 'sich bewegen', *peh₂- 'schützen, hüten', *peh₂- 'trinken'.

*HeP-: * h_1ep - 'fassen, ergreifen', * h_3ep - 'herstellen'.

Of these roots, the only one that could give a meaningful connection, is $*h_1ep$ - 'to seize, to reach', which is supported by some if its reflexes: Alb. ap- 'to give' is reconstructed as $*h_1op$ -eie- 'ergreifen lassen' by Klingenschmitt (1981: 127), and Kortlandt (1992: 104) argues that Germ. *geb- 'to give' reflects *ga- + $*h_1ep$ -. These etymologies show that a semantic shift from $*h_1ep$ - 'to seize, to reach' to 'to give' is quite understandable. From a Hittite point of view, such a semantic shift is not very remarkable either: Hitt. $d\bar{a}i/danzi$ 'to take' is generally seen as reflecting PIE $*deh_3$ - 'to give'.

Since semantically there is nothing wrong with deriving a verb 'to give' from a root $*h_1ep$ - 'to seize, to reach', we may reconstruct pai-/pi- 'to give' as $*h_1p$ -(o)i-. The fact that in Hittite we also find the root $*h_1ep$ - as such in epp-/app- 'to take, to seize', does not speak

against the etymology of pai-/pi- as $*h_1p-(o)i$ -. The same phenomenon can be seen in the fact that besides the verb dai-/ti- 'to place' from $*d^hh_1-(o)i$ - we find $t\bar{e}$ - 'to state' from $*d^heh_1$ -.

The new reconstruction of pai-/pi- as $*h_1p$ -(o)i- sheds new light on the reflexes in other Anatolian languages as well, where we find CLuw. piia-, HLuw. piia- and Lyc. pije- 'to give'. These verbs all seem to go back to a stem *piie/o-, a thematization of the weak stem *pi-. This is not extraordinary. In Hittite, we find many secondary thematizations of verbs in the dai/ti-class, e.g. halziia-zi from halz(a)i-, huia-zi from huu(a)i-, etc. In the same way we find e.g. 1pl.pres. piiaueni, 1pl.pret. piiaueni, inf. piiauuanzi of p(a)i-. In the other Anatolian languages, these thematicized forms have been generalized. 14

Nevertheless, traces of the original inflection can be found as well. In CLuw., we would expect the normal 3sg.imp.act. of pija- 'to give' to be *pijattu 'he must give'. Nevertheless, in the Ištanuwian hymns we find a few times 3sg.imp.act. $p\bar{a}iu$ and paiu, which are generally translated as 'he must give' and which formally correspond perfectly to Hitt. $p\bar{a}u$. It is not surprising that these aberrant forms are found in the Ištanuwian hymns, as these are known to be written in a distinct Luwian dialect with archaic features. Thus, in CLuw. we find the two stems pai- and pi- (in thematicized pija-), which demonstrate that, at least originally, this verb showed ablaut in CLuw. as well. This ablaut, then, must be Proto-Anatolian.

The reconstruction $*h_1p_-(o)i_-$ for Luw. $pija_-$ and Lyc. $pije_-$ shows that in these languages $*h_1$ disappears without a trace in initial position before a stop. This is in contrast with the retention of h_1 in initial position before resonant (e.g. $*h_1m_-$ 'me' > HLuw. a-mu).

¹¹ Kortlandt 1989: 109.

Baltic -i- reflects generalized *-i-, whereas Slavic -i- reflects generalized *-ei-; Kortlandt 1987: 109 and 1989: 109.

¹³ For Latin and Celtic: Schrijver 2003.

¹⁴ According to Kortlandt (1989: 109), thematizations of original athematic *i*-presents are the source for e.g. Skt. *búdhyate* 'wakes', *mányate* 'thinks' and Gk. φαίνομαι 'to appear'.

E.g. in KUB 35.135 iv 22: dussanijallas=mi ājatra pāiu 'let the dussanijalla- give ājatra to me', about which Melchert (2003: 174) states: "Since the verb pāiu is transitive and takes an indirect object or beneficiary, it is hard to avoid a sense 'give'".

In Kloekhorst 2004: 44, I have suggested that in HLuw. and Lyc. initial laryngeals before stops were preserved, because of HLuw. á-tara/i- 'self', Lyc. atra-'id.' $< *h_1h_1t$ -ro- (Skt. ātman-). I would now rather interpret the latter forms as $*h_1h_1t$ -ro-.

We arrive at the following conclusions:

The Hitt. verb *pai-/pi-* 'to give' cannot be a univerbated verb, and therefore its connection with Toch.B *ai-*, TochA *e-* 'to give', Gk. αἴνυμαι 'to take' must be given up, as well as its connection with Lyc. *ije-* and HLuw. *iiasa-* 'to buy'.¹⁷

Just like the other verbs of the $d\bar{a}i/ti\underline{i}anzi$ -class, pai/pi- has to reflect *CC-(o)i-. On formal as well as semantic grounds it can be determined that we have to derive pai/pi- from the root * h_1ep - 'to take, to seize': * h_1p -oi-ei, * h_1p -i-enti. A similar semantic shift ('to take, to seize' > 'to give') is found in Alb. ap- 'to give' and Germ. *geb- 'to give' (from *ga- + * h_1ep -).

The inflection *CC -oi-/ *CC -i- is an archaic one. Besides the Hitt. class, we find traces of it in CLuw., which proves that the inflection must be Proto-Anatolian. The similar "mi-"inflection *CC -ei-/ *CC -i- as seen in e.g. Skt. kséti, ksiyánti 'to dwell' < *tk̂-éi-ti/tk̂-i-éntl and of which traces are found in Balto-Slavic, Latin and Celtic, points to an archaic PIE formation.

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Leiden University,

Comparative Indo-European Linguistics
P.O. Box 9515

NL-2300 RA Leiden
The Netherlands

a.kloekhorst@let.leidenuniv.nl

¹⁷ Toch.B ai-, TochA e- 'to give' and Gk. αἴνῦμαι 'to take' can now safely be regarded as reflecting a root * h_2ei -.

¹⁸ If the analysis of Skt. sphāya- as *sph₁-oi-e (cf. note 10) is correct, then the formation *CC-oi- must have been PIE as well.