LITHUANIAN keturi, LATVIAN četri

With deep respect to the memory of Christian S. Stang

The morphology of this numeral in Baltic has been dealt with in detail on a number of occasions, and much of the separate developmental history has been assigned a set of presumed sources, in large part no doubt correct. But what has been lacking in prior explanations is a series of motivations to account for the precise choice of forms that the Baltic languages have made.

It has been remarked (Stang VGBS 278) that the numerals '5' to '9' have taken on the inflexion of '4', although they were indeclinable in Indo-European. This is clearly a form of analogy, i.e. all these numerals which share a common set of semantic syntaxes have taken on a common set of morphological markers. Moreover, since the Baltic languages typologically have preserved a full declensional inflexion and have tended to make their declensions uniformly non-alternating (*akmnmi > akmenimi, *duktros > dukter(è)s, *dntmi > dantimi) and parisyllabic in the stem for the most part, the development of these identically declined nominals conformed to the trend of eliminating minor types from the fully declined system; cf. the parallel regularizing of tas, jis, kas, kuris, and tūkstantis.

Stang (loc. cit.) also points out, without offering an explanation, that 4-9 have adopted specifically an adjectival io- $/i\bar{a}$ - stem type. This may be understood as according primary recognition to the modifying/quantifying (i.e. adjectival) rôle of the numerals; of course, as adjectives, they may then become syntactically nominalized.

Moreover, the specific shape of the adjectival $-io/\bar{a}$ - stem may be readily understood when we recall the systematically deviant acc. pl. masc. -is of these numerals. Here we clearly have a thematization of an *i*-stem, originating in '4', generating an adjectival -io- stem of appurtenance; that is, *-i-o/ \bar{a} -> *-io/ \bar{a} -. This apparent *i*-stem is still to be seen in acc. masc. $k\tilde{e}turis$.

At this point we now see that we have a means of understanding the conservation of form that has been claimed (VGBS 278, 186) for the adverbial (<*loc. pl.) keturiese, Žem. keturijsu, Rietavas katureisu; this form has been compared, as a relic formation, to OCS vlbcěxo, Skt. výkeşu <*-oisu. However, at first glance a reflective consideration of this claim makes one wonder why an original *-oisu should be preserved precisely in a paradigm that was not really an *o-stem. The answer seems to be that the pre-form was not exactly *-oisu, but rather *-ioisu; a comparable phonetic situation no doubt underlies the dat. pl. didiem(u)s, dat. du. didiem. I suggest also a like background for tiem(u)s (VGBS 244; transferred also to the adjectives, on which see VGBS 261). In the latter case, rather than an unlikely ablaut in *ei beside OCS těmo, Goth. paim, Skt. tébhyas, I propose a pre-form *toimus ~

tioimus, and for OPruss. stēimans etc. *stioimons parallel to dei < *dioi (VGBS 242). Here the intrusive *i would come from conflation with -imus etc. of the i-stems seen in Žem. têms, Mažvydas tims, gimus. Now just as stēimans and tiem(u)s were aided by tims, gimus etc., so *keturioisu and its descendant keturiese were supported in their i-vocalism by kēturis and associated forms. It is, then, the apparent i-stem value of '4' that permitted the survival of this stray testimony for *-joisu.

In turn, we know that in conformity with the regular development in Baltic and Slavic an apparent *i*-stem may reflect an original athematic consonant stem, or root noun; the fulcrum on which this turned was, of course, the phonetics of the syllabic nasal in the acc. sg. and pl. Therefore $k\tilde{e}turis$ is earlier to be derived from *keturns, itself with a levelled first syllable vocalism from the old nom. pl. The derivation of the paradigm must thus have been:

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Nom. *ketures < *k**etuores k^wturms

Instr. keturmis k^wtur+mis/+mas

Dat. keturmus k^wtur+su
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Thus we have moved backward in time, motivating each step as we went. We see how the original k^w turms is the key for the entire development of the $-io/\bar{a}$ - stem numerals.

There remains the Latv. četri, that is, older cettre loc. zettros. Endzelīns (CPMBL 1971, p. 181) remarks on the loss of u, giving a weak reason alleging analogy on bisyllabism². Since the series also includes septiņi, astuôņi and deviņi unchanged Endzelīn's argument is obliged to rest on the assumption of counting in series. But I have already rejected such arguments elsewhere³ as an important source of unexpected numeral characteristics; numerals are simply used in several notable syntaxes (e.g. the quantifying adjectival one mentioned above) other than that of serial counting. Besides, if such reductions did occur in certain restricted syntaxes (i.e. reduction by a simple grammatical rule) we might expect the underlying form to be preserved in the simple cardinal, as being the forme de fondation.

When however we note such derived forms as ceturts, czeturkort czeturpacmytâ (1753), with -ur- between consonants, and when we recall the productive nature of suffixal ablaut in Baltic (which I have discussed Baltistica VI(1) 1970, p. 27-32), it is easy to see how the form cetr- could become lexicalized; a form such as ceturts would be generated by the rule r > ur/C - C, or more generally: zero $\rightarrow u \sim i/C - RC$.

On the other hand, since ketvirtas has not yielded to ketur- we do not find keturi similarly reduced.

¹ See my dicussion of the paradigm in: Studii clasice. București, 1977, vol. 17, p. 149.

² Czech čtyři is not relevant as Endzelīns claims.

³ See Foundations of Language, 1974, vol. 11, p. 463, esp. footnote 4.