Erratum to ‘S. Zhou, A class of arc-transitive Cayley graphs as models for interconnection networks, SIAM J. Discrete Math. 23 (2009), 694–714’

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I appreciate Kamil Bulinski for spotting two mistakes in this paper. Fortunately, they do not affect the main results of the paper and their proofs.

The statement in (d) of Theorem 3.1 that ‘Δ_g contains |H_x| shortest paths of Γ from g to x’ is not necessarily true in general, as shown by the hypercube $Q_d \cong \text{Cay}(Z_2^n, \{e_1, \ldots, e_n\})$, $d \geq 3$ and the group $H$ of all permutations of the coordinates.

In the paragraph containing equation (4), we claim that ‘each vertex of Γ other than 1 is in exactly one subtree $\Delta_{1,\phi}$’ if and only if ‘$\Delta_1$ is a spanning tree of Γ rooted at 1’. The ‘only if’ part of this statement is true, but the ‘if’ part of it is false in general, as shown by the complete graph $K_4 \cong \text{Cay}(Z_2^2, Z_2^2 - \{(0,0)\})$ and the group $H = GL(2,2)$.

The two counterexamples above are due to Kamil.