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telling polymake which convex-hull algorithm to use
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> polymake <file> {cdd|lrs|beneath_beyond} {FACETS|VERTICES}
note: beneath_beyond can not compute VERTICES (it has no -dual option)

timing programs
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> time <program>

calling cdd, lrs and beneath_beyond directly
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problem: the client 'center' computes the convex hull

> cdd_ch_client
usage: cdd_ch_client <file> { -primal | -dual}

> lrs_ch_client
usage: lrs_ch_client <file> { -primal | -dual | -valid }

> beneath_beyond
usage: beneath_beyond <file> <points_section> [ <vertex_permutation_section> ]

example
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computing the FACETS of the polar of a 12-dimensional dwarfed cube:

> dwarfed_cube dwarfed_12.poly 12
> center dwarfed_12.center.poly dwarfed_12.poly
> polarize dwarfed_12.center.polarized.poly dwarfed_12.center.poly

>time cdd_ch_client dwarfed_12.center.polarized.poly -primal
2.015u 0.044s 0:03.74 54.8%      0+0k 0+0io 990pf+0w

>time lrs_ch_client dwarfed_12.center.polarized.poly -primal
0.788u 0.027s 0:01.38 57.9%      0+0k 0+0io 988pf+0w

> time beneath_beyond dwarfed_12.center.polarized.poly VERTICES
7.819u 0.065s 0:14.58 53.9%      0+0k 0+0io 1003pf+0w

improving beneath_beyond
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add

VERTEX_PERMUTATION
24 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

to dwarfed_12.center.polarized.poly and rerun the client 'beneath_beyond'
with

> time beneath_beyond dwarfed_12.center.polarized.poly VERTICES VERTEX_PERMUTATION
polymake: verification of TRIANGULATION failed:
length mismatch: new 4085 old 6131

3.377u 0.059s 0:05.96 57.3%      0+0k 0+0io 1004pf+0w

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