Aarex's Googology | Nested Cascading-E | Original ExE

In this document, I am going to coin googologisms beyond godsgodgulus, going up to general gogulus and beyond. There aren't enough googologisms, and there will be new ones coming. Get ready, settle your seatbelt, and blast off to hyperion hyperoperators!

This also includes Expand-E, extending hyperion hyperoperators to 4 entry arrays!

Oh, this also includes Linear-E numbers by Username5243. Go check it out.

Godsgodgulus Regiment

#{100}# - #{{1}}#

phi(w,0,0)

(Original, starting from ogdacthulhum)

We start at godsgodgulus, which is equal to E100#{100}#100. To continue, I have to use Sbiis' Hyper Extended Cascading-E Notation!

Here's a quick overview. In order to get higher values from #{A}_, we need to use > operation and then nest it to get the next # factor to that.

(For A = B*# and B and C are hyperproducts: #{A}(A+C) = #{A}A>#{A}C)

... preparation for a liftoff ...

(1) goliath = E100#{#}#10

(???) golligog = E100#{#}#50

(???) godsgodgulus = E100#{#}#100

(???) gigantorgog= E100#{#}#500

(???) colossigog = E100#{#}#50,000,000,000,000,000

(???) godsgodgulusgong = E100000#{#}#100000

(???) grand godsgodgulus = E100#{#}#100#2

(???) grangol-carta-godsgodgulus = E100#{#}#100#100

(???) gugold-carta-godsgodgulus = E100#{#}#100##100

(???) godgahlah-carta-godsgodgulus = E100#{#}#100#^#100

(???) godgathor-carta-godsgodgulus = E100#{#}#100#^#^#100

(???) tethrathoth-carta-godsgodgulus = E100#{#}#100#^^#100

(???) tethracross-carta-godsgodgulus = E100#{#}#100#^^##100

(???) tethratope-carta-godsgodgulus = E100#{#}#100#^^#^#100

(???) tethrarxitri-carta-godsgodgulus = E100#{#}#100#^^#^^#100

(???) pentacthulum-carta-godsgodgulus = E100#{#}#100#^^^#100

(???) hexacthulum-carta-godsgodgulus = E100#{#}#100#^^^^#100

(???) godsgodgulus-by-deuteron = E100#{#}#100#{#}#100

(???) godsgodgulus-by-deuteron = E100#{#}#100#{#}#100#{#}#100

(???) godsgodgulus-by-hyperion = E100#{#}#*#100

(???) godsgodgulus-by-godgahlah = E100#{#}#*#^#100

(???) godsgodgulus-by-tethrathoth = E100#{#}#*#^^#100

(???) deutero-godsgodgulus = E100#{#}#*#{#}#100

(???) godsgodgulfact = E100(#{#}#)^#100

(???) grideutergodsgodulus = E100(#{#}#)^##100

(???) godsgodgulus-ipso-godgahlah = E100(#{#}#)^#^#100

(???) godsgodgulus-ipso-tethrathoth = E100(#{#}#)^#^^#100

(???) dutetrated-godsgodgulus = E100(#{#}#)^(#{#}#)100

(???) terrible godsgodgulus = E100(#{#}#)^^#100

(???) terrible terrible godsgodgulus = E100((#{#}#)^^#)^^#100

(???) territerated godsgodgulus = E100(#{#}#)^^#>#100

(???) tethri-godsgodgulus-turreted godsgodgulus = E100(#{#}#)^^#>(#{#}#)100

(???) dustaculated godsgodgulus = E100(#{#}#)^^#>(#{#}#)^^#100

(???) terrisquared godsgodgulus = E100(#{#}#)^^##100

(???) godgahlah-tetrated godsgodgulus = E100(#{#}#)^^#^#100

(???) dupentated godsgodgulus = E100(#{#}#)^^(#{#}#)100

(???) horrible godsgodgulus = E100(#{#}#)^^^#100

(???) horrendous godsgodgulus = E100(#{#}#){4}#100

(???) heptorrendous godsgodgulus = E100(#{#}#){5}#100

(???) ogdorrendous godsgodgulus = E100(#{#}#){6}#100

(???) ennorrendous godsgodgulus = E100(#{#}#){7}#100

(???) dekorrendous godsgodgulus = E100(#{#}#){8}#100

(???) godsgodeugulus = E100(#{#}#){#}#100

(???) godsgotrigulus = E100((#{#}#){#}#){#}#100

(???) godsgoquadrgulus = E100(((#{#}#){#}#){#}#){#}#100

(???) godsgoquingulus = E100#{#}#>#5

(???) godsgosexgulus = E100#{#}#>#6

(???) godsgosepgulus = E100#{#}#>#7

(???) godsgodoctgulus = E100#{#}#>#8

(???) godsgonongulus = E100#{#}#>#9

(???) godsgotengulus = E100#{#}#>#10

(???) godsgodguliterator = E100#{#}#>#100

(???) terrible godsgodguliterator = E100(#{#}#>#)^^#100

(???) horrible godsgodguliterator = E100(#{#}#>#)^^^#100

(???) horrendous godsgodguliterator = E100(#{#}#>#){4}#100

(???) heptorrendous godsgodguliterator = E100(#{#}#>#){5}#100

(???) ogdorrendous godsgodguliterator = E100(#{#}#>#){6}#100

(???) ennorrendous godsgodguliterator = E100(#{#}#>#){7}#100

(???) dekorrendous godsgodguliterator = E100(#{#}#>#){8}#100

Afterwards, I have to start coining roots for (_{#}#) hyperoperator in order to get #{#}#>#+# hyperion.

Following the trend of “terrible,” “horrible,” and “horrendous,” I prefer a synonym which starts with g, which I use “grievous” for this case.

(???) grievous godsgodgulus = E100(#{#}#){#}#100

(Username called this godsgodudgulus)

(???) grievous grievous godsgodgulus = E100((#{#}#){#}#){#}#100

(Username called this godsgotridgulus)

(???) three-ex-grievous godsgodgulus = E100#{#}#>#4

(also called (???) godsgoteteragulus)

(???) four-ex-grievous godsgodgulus = E100#{#}#>#5

(also called (???) godsgopeptagulus)

(???) five-ex-grievous godsgodgulus = E100#{#}#>#6

(also called (???) godsgoextagulus)

(???) six-ex-grievous godsgodgulus = E100#{#}#>#7

(also called (???) godsgoeptagulus)

(???) seven-ex-grievous godsgodgulus = E100#{#}#>#8

(also called (???) godsgo-ogdagulus)

(???) eight-ex-grievous godsgodgulus = E100#{#}#>#9

(also called (???) godsgoentagulus)

(???) nine-ex-grievous godsgodgulus = E100#{#}#>#10

(also called (???) godsgodekatagulus)

(???) ten-ex-grievous godsgodgulus = E100#{#}#>#11

(???) hundred-ex-grievous godsgodgulus = E100#{#}#>#101

... moving on ...

(???) grievous godsgodguliterator = E100(#{#}#>#){#}#100

(???) double grievous godsgodguliterator = E100((#{#}#>#){#}#){#}#100

(???) triple grievous godsgodguliterator = E100(#{#}#>#){#}#>#3

(???) decuple grievous godsgodguliterator = E100(#{#}#>#){#}#>#10

(???) godsgodgulditerator = E100(#{#}#>#){#}#>#100

(???) godsgodgultriterator = E100#{#}#>##3

(???) godsgodgulquaditerator = E100#{#}#>##4

(???) godsgodgulquiditerator = E100#{#}#>##5

(???) godsgodgulsiditerator = E100#{#}#>##6

(???) godsgodgulsepiterator = E100#{#}#>##7

(???) godsgodgulogditerator = E100#{#}#>##8

(???) godsgodgulnoniterator = E100#{#}#>##9

(???) godsgodguldeciterator = E100#{#}#>##10

(???) godsgodgulgriditerator = E100#{#}#>##100

(???) grievous godsgodgulgriditerator = E100(#{#}#>##){#}#100

(???) grieviterated godsgodgulgriditerator = E100(#{#}#>##){#}#>#100

(???) grieviditerated godsgodgulgriditerator = E100((#{#}#>##){#}#>#){#}#>#100

(???) godsgodguldigriditerator = E100(#{#}#>##){#}#>##100

(???) godsgodgulcubiterator = E100#{#}#>###100

(???) godsgodgulspatialator = E100#{#}#>#^#100

(???) tethrathoth-turreted-godsgodgulus = E100#{#}#>#^^#100

(???) pentacthulum-turreted-godsgodgulus = E100#{#}#>#^^^#100

(???) hexacthulum-turreted-godsgodgulus = E100#{#}#>#{4}#100

(???) heptacthulum-turreted-godsgodgulus = E100#{#}#>#{5}#100

(???) ogdacthulum-turreted-godsgodgulus = E100#{#}#>#{6}#100

(???) ennacthulum-turreted-godsgodgulus = E100#{#}#>#{7}#100

(???) dekacthulum-turreted-godsgodgulus = E100#{#}#>#{8}#100

(???) dustaculated godsgodgulus = E100#{#}#>#{#}#100

(???) grieviterated dustaculated godsgodgulus = E100#{#}#>(#{#}#+#)100

(???) godgahlah-turreted-grieviterated dustaculated godsgodgulus = E100#{#}#>(#{#}#+#^#)100

(???) deutergodsgodgulus-turreted-godsgodgulus = E100#{#}#>(#{#}#+#{#}#)100

(???) godsgodgulus-by-hyperion-turreted-godsgodgulus = E100#{#}#>(#{#}#*#)100

(???) godsgodgulfact-turreted-godsgodgulus = E100#{#}#>(#{#}#)^#100

(???) terrible-godsgodgulus-turreted-godsgodgulus = E100#{#}#>(#{#}#)^^#100

(???) godsgodeugulus-turreted-godsgodgulus = E100#{#}#>(#{#}#){#}#100

(???) godsgodguliter-turreted-godsgodgulus = E100#{#}#>#{#}#>#100

(???) tristaculated godsgodgulus = E100#{#}#>#{#}#>#{#}#100

(???) tetrastaculated godsgodgulus = E100#{#}##4

... crossing into the next hyperoperator ...

(???) godsgodgulcross = E100#{#}##100

(???) grievous godsgodgulcross = E100(#{#}##){#}#100

(???) grieviterated godsgodgulcross = E100(#{#}##){#}#>#100

(???) grievigodsgodgulcross-turreted godsgodgulcross = E100(#{#}##){#}#>#{#}##100

(???) dustaculated-grevigodsgodgulcross = E100(#{#}##){#}#>(#{#}##){#}#100

(???) grievisquared godsgodgulcross = E100(#{#}##){#}##100

(???) godsgodgulitercross = E100#{#}##>#100

(???) dustaculated godsgodgulcross = E100#{#}##>#{#}##100

(???) godsgodgulcubor = E100#{#}###100
(???) godsgodgulteron = E100#{#}#^#4
(???) godsgodgulpeton = E100#{#}#^#5
(???) godsgodgulhexon = E100#{#}#^#6
(???) godsgodgulhepton = E100#{#}#^#7
(???) godsgodgulogdon = E100#{#}#^#8
(???) godsgodgulennon = E100#{#}#^#9
(???) godsgodguldekon = E100#{#}#^#10

(???) godsgodgultope = E100#{#}#^#100
(???) godsgodgo-tethrathoth = E100#{#}#^^#100
(???) godsgodgo-pentacthulum = E100#{#}#^^^#100
(???) godsgodgo-hexacthulum = E100#{#}#{4}#100
(???) godsgodgo-heptacthulum = E100#{#}#{5}#100
(???) godsgodgo-ogdacthulum = E100#{#}#{6}#100
(???) godsgodgo-ennacthulum = E100#{#}#{7}#100
(???) godsgodgo-dekacthulum = E100#{#}#{8}#100

(???) godsgodarxitri = E100#{#}#{#}#100
(???) godsgodarxitet = E100#{#+1}#4
(???) godsgodarxipent = E100#{#+1}#5
(???) godsgodarxihex = E100#{#+1}#6
(???) godsgodarxihept = E100#{#+1}#7
(???) godsgodarxiogd = E100#{#+1}#8
(???) godsgodarxienn = E100#{#+1}#9
(???) godsgodarxideck = E100#{#+1}#10

This is just the origins of Hyper-Extended Cascading-E. Hundreds spent by, and we finally reached the next hyperoperator. Don't worry, we haven't see the blasphemous system yet.

What comes next is the greedgodgulus Squadron, covering hyperoperators up to {##}.

Greedgodgulus Squadron

... there are no limits here ...

(???) greedgodgulus = E100#{#+1}#100

("greedy" + godgodsgulus + ve + enus, {#+1} hyperoperator)
(formerly godsgovenus and greedgodgulus)
(Username called this (???) godsgodgulhen whilst I call this (???) godsgohenus)

"Now we are greeding the hyperoperators up!"

(???) terrible greedgodgulus = E100(#{#+1}#)^^#100

(???) horrible greedgodgulus = E100(#{#+1}#)^^^#100

(???) horrendous greedgodgulus = E100(#{#+1}#){4}#100

(???) heptorrendous greedgodgulus = E100(#{#+1}#){5}#100

(???) ogdorrendous greedgodgulus = E100(#{#+1}#){6}#100

(???) ennorrendous greedgodgulus = E100(#{#+1}#){7}#100

(???) dekorrendous greedgodgulus = E100(#{#+1}#){8}#100

(???) grievous greedgodgulus = E100(#{#+1}#){#}#100

(???) grieviterated greedgodgulus = E100(#{#+1}#){#}#>#100

(???) grievisquared greedgodgulus = E100(#{#+1}#){#}##100

(???) godgodgulus-grievated greedgodgulus = E100(#{#+1}#){#}#{#}#100
(also called (???) grevigodgulusated greedgodgulus)

(???) dugreediated greedgodgulus = E100(#{#+1}#){#}(#{#+1}#)100
("greedy" + ated, {#+1} hyperoperator)
(formerly dugrievenusated godsgovenus, also called (???) dugodsgodgulated greedgodgulus)

(???) trigreediated greedgodgulus = E100(#{#+1}#){#}(#{#+1}#){#}(#{#+1}#)100

(???) tetragreediated greedgodgulus = E100(#{#+1}#){#+1}#4

(???) pentagreediated greedgodgulus = E100(#{#+1}#){#+1}#5

(???) hexagreediated greedgodgulus = E100(#{#+1}#){#+1}#6

(???) heptagreediated greedgodgulus = E100(#{#+1}#){#+1}#7

(???) octagreediated greedgodgulus = E100(#{#+1}#){#+1}#8

(???) enneagreediated greedgodgulus = E100(#{#+1}#){#+1}#9

(???) decagreediated greedgodgulus = E100(#{#+1}#){#+1}#10

(???) greedous greedgodgulus = E100(#{#+1}#){#+1}#100

("greedy" + ous, {#+1} hyperoperator)

(formerly grievenus godsgovenus, also called (???) greedsgodudgulus)

(???) greedgodguliterator = E100#{#+1}#>#100

(???) godsgodgulus-turreted-greedgodgulus = E100#{#+1}#>#{#}#100

(???) dustaculated greedgodgulus = E100#{#+1}#>#{#+1}#100

(???) tristaculated greedgodgulus = E100#{#+1}#>#{#+1}#>#{#+1}#100

(???) tetrastaculated greedgodgulus = E100#{#+1}##4

(???) pentastaculated greedgodgulus = E100#{#+1}##5

(???) hexastaculated greedgodgulus = E100#{#+1}##6

(???) heptastaculated greedgodgulus = E100#{#+1}##7

(???) octastaculated greedgodgulus = E100#{#+1}##8

(???) enneastaculated greedgodgulus = E100#{#+1}##9

(???) decastaculated greedgodgulus = E100#{#+1}##10

(???) greedgodgulcross = E100#{#+1}##100

(???) greedgodgultope = E100#{#+1}#^#100

(???) greedgodguli-godsgodgulus = E100#{#+1}#{#}#100

(???) greedgodgularxitri = E100#{#+1}#{#+1}#100

(???) greedgodgularxitet = E100#{#+2}#4

(???) greedgodgularxipent = E100#{#+2}#5

(???) greedgodgularxihex = E100#{#+2}#6

(???) greedgodgularxihept = E100#{#+2}#7

(???) greedgodgularxiogd = E100#{#+2}#8

(???) greedgodgularxienn = E100#{#+2}#9

(???) greedgodgularxideck = E100#{#+2}#10

... second hyperoperator increase ...

(???) greedgodeulus = E100#{#+2}#100

(greedgodgulus + deulus, {#+2} hyperoperator)

(formerly godsgovedeus)

(???) dugreedideusated greedgodeulus = E100(#{#+2}#){#+1}(#{#+2}#)100

(greedy + deus, {#+2} hyperoperator)

(formerly dugreedeusated greedgodeulus)

(???) greedideus greedgodeulus = E100#{#+2}#100

(formerly greedeus greesgodeulus)

(???) greedgodeuliterator = E100#{#+2}#>#100

(???) greedgodeulcross = E100#{#+2}##100

(???) greedgodeultope = E100#{#+2}#^#100

(???) greedgodeul-godsgodgulus = E100#{#+2}#{#}#100

(???) greedgodeul-greedgodgulus = E100#{#+2}#{#+1}#100

(???) greedgodeularxitri = E100#{#+2}#{#+2}#100

(???) greedgodeularxitet = E100#{#+3}#4

(???) greedgodeularxipent = E100#{#+3}#5

(???) greedgodeularxihex = E100#{#+3}#6

(???) greedgodeularxihept = E100#{#+3}#7

(???) greedgodeularxiogd = E100#{#+3}#8

(???) greedgodeularxienn = E100#{#+3}#9

(???) greedgodeularxideck = E100#{#+3}#10

... and so forth celestially ...

(???) greedgotrulus = E100#{#+3}#10

(formerly godsgovetrid and greesgoditrid)

(???) dugreetriated greedgotrulus = E100(#{#+3}#){#+2}(#{#+3}#)100

(formerly dugreeditriated greesgoditrid)

(???) greetreus greesgotrulus = E100(#{#+3}#){#+3}#100

(formerly greeditreus greesgoditrid)

(???) greedgotruliterator = E100#{#+3}#>#100

(???) greedgotrulcross = E100#{#+3}##100

(???) greedgotrularxitri = E100#{#+3}#{#+3}#100

(???) greedgotrularxitet = E100#{#+4}#4

(???) greedgotrularxipent = E100#{#+4}#5

(???) greedgotrularxihex = E100#{#+4}#6

(???) greedgotrularxihept = E100#{#+4}#7

(???) greedgotrularxiogd = E100#{#+4}#8

(???) greedgotrularxienn = E100#{#+4}#9

(???) greedgotrularxideck = E100#{#+4}#10

... the last bunch of squadrons, but take a quick one ...

(???) greedgoqualus = E100#{#+4}#100

(formerly godsgovequad and greesgodiquad)

(???) dugreequadated greedgoqualus = E100(#{#+4}#){#+3}(#{#+4}#)100

(formerly dugreediquadated greesgodiquad)

(???) greequadus greedgoqualus = E100(#{#+4}#){#+4}#100

(formerly greediquadus greesgodiquad)

(???) greedgoqualarxitri = E100#{#+4}#{#+4}#100

(???) greedgoquiulus = E100#{#+5}#100

(formerly godsgovequid and greesgodiquid)

(???) dugreequidated greedgoquiulus = E100(#{#+5}#){#+4}(#{#+5}#)100

(???) greequidus greedgoquiulus = E100(#{#+5}#){#+5}#100

(???) greedgoquiulusarxitri = E100#{#+5}#{#+5}#100

(???) greedgosidulus = E100#{#+6}#100

(formerly godsgovesid and greesgodisid)

(???) dugreesidated greedgosidulus = E100(#{#+6}#){#+5}(#{#+6}#)100

(???) greesidus greedgosidulus = E100(#{#+6}#){#+6}#100

(???) greedgosidlarxitri = E100#{#+6}#{#+6}#100

(???) greedgosepulus = E100#{#+7}#100

(formerly godsgovesepid and greesgodisepid)

(???) dugreeseptated greedgosepulus = E100(#{#+7}#){#+6}(#{#+7}#)100

(???) greesepus greedgosepulus = E100(#{#+7}#){#+7}#100

(???) greedgosepularxitri = E100#{#+7}#{#+7}#100

(???) greedgogdulus = E100#{#+8}#100

(formerly godsgoveogdid and greesgodiogdid)

(???) dugreeogdated greedgogdulus = E100(#{#+8}#){#+7}(#{#+8}#)100

(???) greeogdus greedgogdulus = E100(#{#+8}#){#+8}#100

(???) greedgogdularxitri = E100#{#+8}#{#+8}#100

(???) greedgononulus = E100#{#+9}#100

(formerly godsgovenonid and greesgodinonid)

(???) dugreenonated greedgononulus = E100(#{#+9}#){#+8}(#{#+9}#)100

(???) greenonus greedgononulus = E100(#{#+9}#){#+9}#100

(???) greedgononularxitri = E100#{#+9}#{#+9}#100

(???) greedgodekulus = E100#{#+10}#100
(formerly godsgovedecid and greesgodidecid)

(???) dugreedecated greedgodekulus = E100(#{#+10}#){#+9}(#{#+10}#)100

(???) greedekus greedgodekulus = E100(#{#+10}#){#+10}#100

(???) greedgodekularxitri = E100#{#+10}#{#+10}#100

Now we have bloated through 2 rows of ordinal hyperoperators, but haven't reach the infamous {#,#,1,2} one yet!

The following groups will be separated in the hyper operator order!

Godsgodeus Squadron

... but, we are almost there ...

(???) godsgodeus = E100#{#+#}#100

(???) godsgodeuiterator = E100#{#+#}#>#100

(???) godsgodeucross = E100#{#+#}##100

(???) godsgodeuarxitri = E100#{#+#}#{#+#}#100

(???) greedgodeus = E100#{#+#+1}#100

(???) greedgodudeus = E100#{#+#+2}#100

(???) greedgotrudeus = E100#{#+#+3}#100

(???) greedgoquadeus = E100#{#+#+4}#100

(???) greedgoquideus = E100#{#+#+5}#100

(???) greedgosiddeus = E100#{#+#+6}#100

(???) greedgosepdeus = E100#{#+#+7}#100

(???) greedgogddeus = E100#{#+#+8}#100

(???) greedgonondeus = E100#{#+#+9}#100

(???) greedgodekdeus = E100#{#+#+10}#100

(???) dugriedeusated greedgodeus = E100(#{#+#+1}#){#+#}(#{#+#+1}#)100
(formerly dugreedeusated greesgodeus, mistakely)

(???) dugreedeusated greedgodudeus = E100(#{#+#+2}#){#+#+1}(#{#+#+2}#)100
(formerly dugreededeusated greesgodudeus, mistakely)

(???) dugreedudeusated greedgotrudeus = E100(#{#+#+3}#){#+#+2}(#{#+#+3}#)100

(???) dugreetrideusated greedgoquadeus = E100(#{#+#+4}#){#+#+3}(#{#+#+4}#)100

(???) dugreequadeusated greedgoquideus =
E100(#{#+#+5}#){#+#+4}(#{#+#+5}#)100

(???) dugreequideusated greedgosiddeus = E100(#{#+#+6}#){#+#+5}(#{#+#+6}#)100

(???) dugreesiddeusated greedgosepdeus = E100(#{#+#+7}#){#+#+6}(#{#+#+7}#)100

(???) dugreesepdeusated greedgogddeus = E100(#{#+#+8}#){#+#+7}(#{#+#+8}#)100

(???) dugreeogddeusated greedgonondeus =
E100(#{#+#+9}#){#+#+8}(#{#+#+9}#)100

(???) dugreenondeusated greedgodekdeus =
E100(#{#+#+10}#){#+#+9}(#{#+#+10}#)100

(???) griedeus godsgodeus = E100(#{#+#}#){#+#}#100

(???) greedeus greedsgodeus = E100(#{#+#+1}#){#+#+1}#100

(???) greedudeus greedsgodudeus = E100(#{#+#+2}#){#+#+2}#100

(???) greetrudeus greedgotrudeus = E100(#{#+#+3}#){#+#+3}#100

(???) greequadeus greedgoquadeus = E100(#{#+#+4}#){#+#+4}#100

(???) greequiudeus greedgoquiudeus = E100(#{#+#+5}#){#+#+5}#100

(???) greesiddeus greedgosiddeus = E100(#{#+#+6}#){#+#+6}#100

(???) greesepdeus greedgosepdeus = E100(#{#+#+7}#){#+#+7}#100

(???) greeogddeus greedgogddeus = E100(#{#+#+8}#){#+#+8}#100

(???) greenondeus greedgonondeus = E100(#{#+#+9}#){#+#+9}#100

(???) greedekdeus greedgodekdeus = E100(#{#+#+10}#){#+#+10}#100

... traversing throughout planors ...

(???) godsgotreus = E100#{#+#+#}#100

(???) grietreus godsgotreus = E100(#{#+#+#}#){#+#+#}#100

(???) godsgotreuiterator = E100#{#+#+#}#>#100

(???) godsgotreucross = E100#{#+#+#}##100

(???) godsgotreuarxitri = E100#{#+#+#}#{#+#+#}#100

(???) greedgotreus = E100#{#+#+#+1}#100

(???) greedgodutreus = E100#{#+#+#+2}#100

(???) greedgotrutreus = E100#{#+#+#+3}#100

(???) greedgoquatreus = E100#{#+#+#+4}#100

(???) greedgoquitreus = E100#{#+#+#+5}#100
(???) greedgosidtreus = E100#{#+#+#+6}#100
(???) greedgoseptreus = E100#{#+#+#+7}#100
(???) greedgogdtreus = E100#{#+#+#+8}#100
(???) greedgonontreus = E100#{#+#+#+9}#100
(???) greedgodektreus = E100#{#+#+#+10}#100

(???) godsgoquadus = E100#{##}#4
(???) greedgoquadus = E100#{#+#+#+#+1}#100
(???) greedgoduquadus = E100#{#+#+#+#+2}#100
(???) godsgoquidus = E100#{##}#5
(???) godsgosidus = E100#{##}#6
(???) godsgosepidus = E100#{##}#7
(???) godsgoogdidus = E100#{##}#8
(???) godsgononidus = E100#{##}#9
(???) godsgodecidus = E100#{##}#10

Squariardúm Squadron

Finally, we blanched the monstrous planar of hyperoperators... Welcome to the postsquare realms! We have one monster going on, and we haven't scratched this first regiment! O_o;

(???) squariardúm = E100#{##}#100

"square + ardu" (ascend in irish)

(also called (???) va squariardúm)

(???) grievous squariardúm = E100(#{##}#){#}#100
(???) griedeus squariardúm = E100(#{##}#){#+#}#100
(???) grietreus squariardúm = E100(#{##}#){#+#+#}#100
(???) griequadus squariardúm = E100(#{##}#){##}#4
(???) griequidus squariardúm = E100(#{##}#){##}#5
(???) griesidus squariardúm = E100(#{##}#){##}#6
(???) griesepidus squariardúm = E100(#{##}#){##}#7
(???) grieogdidus squariardúm = E100(#{##}#){##}#8
(???) grienonidus squariardúm = E100(#{##}#){##}#9

(???) griedecidus squariardúm = E100(#{##}#){##}#10

Besides, we have to go for new traditions instead of cluttering the prefixes up.

(???) va'du squariardúm = E100(#{##}#){##}#100
(formerly duvad squariardúm)
(also called (???) squariumus squariardúm)

(???) va'tri squariardúm = E100((#{##}#){##}#){##}#100
(formerly trivad squariardúm)

(???) va'tetr squariardúm = E100#{##}#>#4
(formerly tetravad squariardúm)

(???) va'pent squariardúm = E100#{##}#>#5

(???) va'hex squariardúm = E100#{##}#>#6

(???) va'hep squariardúm = E100#{##}#>#7

(???) va'oct squariardúm = E100#{##}#>#8

(???) va'enn squariardúm = E100#{##}#>#9

(???) va'dek squariardúm = E100#{##}#>#10

(???) va'iter squariardúm = E100#{##}#>#100
(formerly iteratevad squariardúm)
(also called (???) squariarditerator)

Here, I use umus root to fill the naming gap for the (_{b}c) operator.

(???) va'en a'iter squariardúm = E100(#{##}#>#){##}#100
(formerly squariardumus iteratevad squariardúm)
(also called (???) squariumus va'iter squariardúm)

(???) va'du a'iter squariardúm = E100((#{##}#>#){##}#){##}#100

(???) va'tri a'iter squariardúm = E100(#{##}#>#){##}#>#3

(???) va'tetr a'iter squariardúm = E100(#{##}#>#){##}#>#4

(???) va'pent a'iter squariardúm = E100(#{##}#>#){##}#>#5

(???) va'hex a'iter squariardúm = E100(#{##}#>#){##}#>#6

(???) va'hep a'iter squariardúm = E100(#{##}#>#){##}#>#7

(???) va'oct a'iter squariardúm = E100(#{##}#>#){##}#>#8

(???) va'enn a'iter squariardúm = E100(#{##}#>#){##}#>#9

(???) va'dek a'iter squariardúm = E100(#{##}#>#){##}#>#10

(???) va'duiter squariardúm = E100(#{##}#>#){##}#>#100

(???) va'triaiter squariardúm = E100#{##}#>##3

(???) va’tetraiter squariardúm = E100#{##}#>##4

(???) va’pentaiter squariardúm = E100#{##}#>##5

(???) va’hexaiter squariardúm = E100#{##}#>##6

(???) va’heptaiter squariardúm = E100#{##}#>##7

(???) va’octaiter squariardúm = E100#{##}#>##8

(???) va’ennaiter squariardúm = E100#{##}#>##9

(???) va’decaiter squariardúm = E100#{##}#>##10

(???) va’griditer squariardúm = E100#{##}#>##100

(???) va’en va’griditer squariardúm = E100(#{##}#>##){##}#100

(???) va’iter va’griditer squariardúm = E100(#{##}#>##){##}#>#100

(???) va’dugriditer squariardúm = E100(#{##}#>##){##}#>##100

(???) va’cubiter squariardúm = E100#{##}#>###100

(???) va’quartiter squariardúm = E100#{##}#>#^#4

(???) va’quintiter squariardúm = E100#{##}#>#^#5

(???) va’sextiter squariardúm = E100#{##}#>#^#6

(???) va’septiter squariardúm = E100#{##}#>#^#7

(???) va’octiter squariardúm = E100#{##}#>#^#8

(???) va’noniter squariardúm = E100#{##}#>#^#9

(???) va’deciter squariardúm = E100#{##}#>#^#10

(???) va’itergodgahlah squariardúm = E100#{##}#>#^#100

(???) va’itergodsgodgulus squariardúm = E100#{##}#>#{#}#100

(???) dustaculated squariardúm = E100#{##}#>#{##}#100

(???) va’squariardúm-by-hyperion squariardúm = E100#{##}#>#{##}#*#100

(???) tristaculated squariardúm = E100#{##}#>#{##}#>#{##}#100

(???) tetrastaculated squariardúm = E100#{##}##4

(???) pentastaculated squariardúm = E100#{##}##5

(???) hexastaculated squariardúm = E100#{##}##6

(???) heptastaculated squariardúm = E100#{##}##7

(???) octastaculated squariardúm = E100#{##}##8

(???) enneastaculated squariardúm = E100#{##}##9

(???) decastaculated squariardúm = E100#{##}##10

(???) va'cross squariardúm = E100#{##}##100

(also called (???) crossed squariardúm, (???) squariardcross)

(???) va'en a'cross squariardúm = E100(#{##}##){##}#100

(also called (???) squariumus squariardcross)

(???) va'iter a'cross squariardúm = E100(#{##}##){##}#>#100

(???) va'dustaculate a'cross squariardúm = E100(#{##}##){##}#>(#{##}##){##}#100

(???) va'ducross squariardúm = E100(#{##}##){##}##100

(???) va'itercross squariardúm = E100#{##}##>#100

(???) va'itergodgahlah-cross squariardúm = E100#{##}##>#^#100

(???) va'dustaculate-cross squariardúm = E100#{##}##>#{##}##100

(???) va'cubor squariardúm = E100#{##}###100

(???) va'teron squariardúm = E100#{##}#^#4

(???) va'peton squariardúm = E100#{##}#^#5

(???) va'hexon squariardúm = E100#{##}#^#6

(???) va'hepton squariardúm = E100#{##}#^#7

(???) va'ogdon squariardúm = E100#{##}#^#8

(???) va'ennon squariardúm = E100#{##}#^#9

(???) va'dekon squariardúm = E100#{##}#^#10

(???) va'tope squariardúm = E100#{##}#^#100

(???) va'itertope squariardúm = E100#{##}#^#>#100

(???) va'topigodgoldgahlah squariardúm = E100#{##}(#^#*#)100

(???) va'topigodsgodgulus squariardúm = E100#{##}#{#}#100

(???) va'arxitri squariardúm = E100#{##}#{##}#100

(also called (???) squariarxitri)

(???) va'arxitet squariardúm = E100#{##+1}#4

(???) va'arxipent squariardúm = E100#{##+1}#5

(???) va'arxihex squariardúm = E100#{##+1}#6

(???) va'arxihept squariardúm = E100#{##+1}#7

(???) va'arxiogd squariardúm = E100#{##+1}#8

(???) va'arxienn squariardúm = E100#{##+1}#9

(???) va'arxideck squariardúm = E100#{##+1}#10

Here's an irregular number as a quick break.

Besides, there is a 2x2 matrix hiding on this number, giving a mysterious quirk!

(???) surreal planor = E212(##{##}##){##}(##{##}##)212

(???) squariarvenus = E100#{##+1}#100

(???) squariumus squariarvenus = E100(#{##+1}#){##}#100

(???) va'cross squariumus squariarvenus = E100(#{##+1}#){##}##100

(???) duiterated squariarvenus = E100(#{##+1}#){##}(#{##+1}#)100

(also called (???) dusquariarvenusated squariarvenus)

(???) va'du squariarvenus = E100(#{##+1}#){##+1}#100

(also called (???) squariarvenumus squariarvenus)

(???) va'iter squariarvenus = E100#{##+1}#>#100

(also called (???) squariarveniterator)

(???) va'cross squariarvenus = E100#{##+1}##100

(also called (???) squariarvencross)

(???) va'tope squariarvenus = E100#{##+1}#^#100

(???) va'arxitri squariarvenus = E100#{##+1}#{##+1}#100

(also called (???) squariarvenarxitri)

(???) va'arxitet squariarvenus = E100#{##+2}#4

(???) va'arxipent squariarvenus = E100#{##+2}#5

(???) va'arxihex squariarvenus = E100#{##+2}#6

(???) va'arxihept squariarvenus = E100#{##+2}#7

(???) va'arxiogd squariarvenus = E100#{##+2}#8

(???) va'arxinon squariarvenus = E100#{##+2}#9

(???) va'arxideck squariarvenus = E100#{##+2}#10

And n-_-ated root for _{A}n hyperoperator.

(???) squariardulus = E100#{##+2}#100

(???) squariumus squariardulus = E100(#{##+1}#){##}#100

(???) dusquariarvenusated squariardulus = E100(#{##+2}#){##}(#{##+2}#)100

(???) squariarvenumus squariardulus = E100(#{##+1}#){##+1}#100

(???) duiterated squariardulus = E100(#{##+2}#){##+1}(#{##+2}#)100

(also called (???) dusquariardulusated squariardulus)

(???) va'du squariardulus = E100(#{##+2}#){##+2}#100

(also called (???) squariardulumus squariardulus)

(???) va'arxitri squariardulus = E100#{##+2}#{##+2}#100

(???) squariartrulus = E100#{##+3}#100

(???) va'du squariartrulus = E100(#{##+3}#){##+3}#100

(also called (???) squariartrulumus squariartrulus)

(???) squariarqualus = E100#{##+4}#100

(???) squariarquiulus = E100#{##+5}#100

(???) squariarsidulus = E100#{##+6}#100

(???) squariarsepulus = E100#{##+7}#100

(???) squariarogdulus = E100#{##+8}#100

(???) squariarnonulus = E100#{##+9}#100

(???) squariardekulus = E100#{##+10}#100

(???) squariar-godgulus = E100#{##+#}#100

(???) squariar-greedgulus = E100#{##+#+1}#100

(???) squariar-greedeulus = E100#{##+#+2}#100

(???) squariar-greetrulus = E100#{##+#+3}#100

(???) squariar-greequalus = E100#{##+#+4}#100

(???) squariar-greequiulus = E100#{##+#+5}#100

(???) squariar-greesidulus = E100#{##+#+6}#100

(???) squariar-greesepulus = E100#{##+#+7}#100

(???) squariar-greeogdulus = E100#{##+#+8}#100

(???) squariar-greenonulus = E100#{##+#+9}#100

(???) squariar-greedekulus = E100#{##+#+10}#100

(???) squariar-godeus = E100#{##+#+#}#100

(???) squariar-greedeus = E100#{##+#+#+1}#100

(???) squariar-gotreus = E100#{##+#+#+#}#100

(???) squariar-goquadus = E100#{##+##}#4

(???) squariar-goquidus = E100#{##+##}#5

(???) squariar-gosidus = E100#{##+##}#6

(???) squariar-gosepidus = E100#{##+##}#7

(???) squariar-googdius = E100#{##+##}#8

(???) squariar-gononidus = E100#{##+##}#9

(???) squariar-godecidus = E100#{##+##}#10

... multiplier madness ...

(???) squarekisecundúm = E100#{##+##}#100

(???) squarekisecun-venus = E100#{##+##+1}#100

(???) squarekisecun-vedeus = E100#{##+##+2}#100

(???) squarekisecun-vetrid = E100#{##+##+3}#100

(???) squarekisecun-vequad = E100#{##+##+4}#100

(???) squarekisecun-vequid = E100#{##+##+5}#100

(???) squarekisecun-vesid = E100#{##+##+6}#100

(???) squarekisecun-vesepid = E100#{##+##+7}#100

(???) squarekisecun-veogdid = E100#{##+##+8}#100

(???) squarekisecun-venonid = E100#{##+##+9}#100

(???) squarekisecun-vedecid = E100#{##+##+10}#100

(???) squarekisecun-godgulus = E100#{##+##+#}#100

(???) squarekisecun-greedsgodgulus = E100#{##+##+#}#100

(???) squarekisecun-godeus = E100#{##+##+#+#}#100

(???) squarekisecun-gotreus = E100#{##+##+#+#+#}#100

(???) squarekisecun-goquadus = E100#{##+##+##}#4

(???) squarekisecun-goquidus = E100#{##+##+##}#5

(???) squarekisecun-gosidus = E100#{##+##+##}#6

(???) squarekisecun-gosepidus = E100#{##+##+##}#7

(???) squariekisecun-gogdidus = E100#{##+##+##}#8

(???) squariekisecun-gononius = E100#{##+##+##}#9

(???) squariekisecun-godecidus = E100#{##+##+##}#10

(???) squarekithirdúm = E100#{##+##+##}#100

(???) squarekithirde-venus = E100#{##+##+##+1}#100

(???) squarekithirde-godgulus = E100#{##+##+##+#}#100

(???) squarekithirde-godeus = E100#{##+##+##+#+#}#100

(???) squarekithirde-gotreus = E100#{##+##+##+#+#+#}#100

(???) squarekithirde-goquadus = E100#{##+##+##+##}#4

(???) squarekithirde-goquidus = E100#{##+##+##+##}#5

(???) squarekithirde-gosidus = E100#{##+##+##+##}#6
(???) squarekithirde-gosepidus = E100#{##+##+##+##}#7
(???) squarekithirde-gogdidus = E100#{##+##+##+##}#8
(???) squarekithirde-gononius = E100#{##+##+##+##}#9
(???) squarekithirde-godecidus = E100#{##+##+##+##}#10

(???) squarekitethúm = E100#{###}#4
(???) squarekitethe-godgulus = E100#{##+##+##+##+#}#100
(???) squarekipentúm = E100#{###}#5
(???) squarekihexúm = E100#{###}#6
(???) squarekihepúm = E100#{###}#7
(???) squarekiogdúm = E100#{###}#8
(???) squarekiennúm = E100#{###}#9
(???) squarekideckúm = E100#{###}#10

... onto the hyperrealms ...
(???) cubiardúm = E100#{###}#100
(???) cubiardvenus = E100#{###+1}#100
(???) cubiardsgodgulus = E100#{###+#}#100
(???) cubive-squariardúm = E100#{###+##}#100
(???) cubive-squariars-godgulus = E100#{###+##+#}#100
(???) cubive-squarekisecundúm = E100#{###+##+##}#100
(???) cubive-squarekithirdúm = E100#{###+##+##+##}#100
(???) cubive-squarekitethúm = E100#{###+###}#4
(???) cubive-squarekipentúm = E100#{###+###}#5
(???) cubive-squarekihexúm = E100#{###+###}#6
(???) cubive-squarekhepúm = E100#{###+###}#7
(???) cubive-squarekiogdúm = E100#{###+###}#8
(???) cubive-squarekinonúm = E100#{###+###}#9
(???) cubive-squarekidecúm = E100#{###+###}#10

(???) cubekisecundúm = E100#{###+###}#100
(???) cubekisecunve-squariardúm = E100#{###+###+##}#100

(???) cubekithirdúm = E100#{###+###+###}#100

(???) cubekitethúm = E100#{####}#4

(???) cubekipentúm = E100#{####}#5

(???) cubekihexúm = E100#{####}#6

(???) cubekihepúm = E100#{####}#7

(???) cubekiogdúm = E100#{####}#8

(???) cubekinonúm = E100#{####}#9

(???) cubekidecúm = E100#{####}#10

... and driving the vectors out of spatial dimensions ...

(???) teroiardúm = E100#{####}#100

(???) teroiardvenus = E100#{####+1}#100

(???) teroiardsgodgulus = E100#{####+#}#100

(???) teroiardve-squariardúm = E100#{####+##}#100

(???) teroiardve-cubiardúm = E100#{####+###}#100

(???) teroikisecundúm = E100#{####+####}#100

(???) petoiardúm = E100#{#^#}#5

(???) hexoiardúm = E100#{#^#}#6

(???) heptoiardúm = E100#{#^#}#7

(???) ogdoiardúm = E100#{#^#}#8

(???) ennoiardúm = E100#{#^#}#9

(???) dekoiardúm = E100#{#^#}#10

Centurion Squadron

At the last breath of approximately 500 names, we finally reached the centurion of dimensions.

(???) the centurion = E100#{#^#}#100

(Username called this godsgodgultro-godgahlah)

We start to notice the analogy of hyperoperators as iterated functions of lower hyperoperators.

Be energetic, because this will go up faster, towards the end of the blasphemous regiment.

Without further ado, let's continue!

(???) terrible centurion = E100(#{#^#}#)^^#100

(???) grievous centurion = E100(#{#^#}#){#}#100

(???) squariardúmus centurion = E100(#{#^#}#){##}#100

(???) duvad centurion = E100(#{#^#}#){#^#}#100

(also called (???) centurionumus centurion)

(???) centuriovenus = E100#{#^#+1}#100

(???) centuriogodgulus = E100#{#^#+#}#100

(???) centurion-vesquariardúm = E100#{#^#+##}#100

(???) centurion-vecubiardúm = E100#{#^#+###}#100

(???) centurion-veteroiardúm = E100#{#^#+####}#100

(???) centurion-vepetoiardúm = E100#{#^#+#^#}#5

(???) centurion-vehexoiardúm = E100#{#^#+#^#}#6

(???) centurion-vehepoiardúm = E100#{#^#+#^#}#7

(???) centurion-veogdoiardúm = E100#{#^#+#^#}#8

(???) centurion-vennoiardúm = E100#{#^#+#^#}#9

(???) centurion-vedekoiardúm = E100#{#^#+#^#}#10

(???) centurisecundúm = E100#{#^#+#^#}#100

(???) centurithirdúm = E100#{#^#+#^#+#^#}#100

(???) centuritethúm = E100#{#^#*#}#4

(???) centuripentúm = E100#{#^#*#}#5

(???) centurihexúm = E100#{#^#*#}#6

(???) centuriheptúm = E100#{#^#*#}#7

(???) centuriogdúm = E100#{#^#*#}#8

(???) centurinonúm = E100#{#^#*#}#9

(???) centuridecúm = E100#{#^#*#}#10

(???) godgoldgah-centurion = E100#{#^#*#}#100

(???) deutergodgah-centurion = E100#{#^#*#^#}#100

(???) gridgah-centurion = E100#{#^##}#100

(???) godgathor-centurion = E100#{#^#^#}#100

(???) super centurion = E100#{#^^#}#100

(also called (???) tethra-centurion and (???) centuritethraion)

(???) territethra-centurion = E100#{(#^^#)^^#}#100

(???) tethraiter-centurion = E100#{#^^#>#}#100

(???) tethracross-centurion = E100#{#^^##}#100

(???) pentacthulu-centurion = E100#{#^^^#}#100

(???) hexacthulu-centurion = E100#{#{4}#}#100

(???) heptacthulu-centurion = E100#{#{5}#}#100

(???) ogdacthulu-centurion = E100#{#{6}#}#100

(???) ennacthulu-centurion = E100#{#{7}#}#100

(???) dekacthulu-centurion = E100#{#{8}#}#100

(???) golia-centurion = E100#{#{10}#}#100

(???) golligo-centurion = E100#{#{50}#}#100

Ohmygosh Squadron

Hereby, the end of Hyper-Extended Cascading-E Notation. The next step is to formalize tetrentational hyperions, but that will come in the next regiment.

(???) ohmygosh-ohmygosh-ohmygoosh = E100#{#{#}#}#100

(also called (???) godsgodgul-centurion)

(???) terrible ohmygosh-ohmygosh-ohmygoosh = E100(#{#{#}#}#)^^#100

(???) grievous ohmygosh-ohmygosh-ohmygoosh = E100(#{#{#}#}#){#}#100

(???) squariardumus ohmygosh-ohmygosh-ohmygoosh = E100(#{#{#}#}#){##}#100

(???) centurionumus ohmygosh-ohmygosh-ohmygoosh = E100(#{#{#}#}#){#^#}#100

(???) super centurionumus ohmygosh-ohmygosh-ohmygoosh = E100(#{#{#}#}#){#^^#}#100

(???) centuripentachulthumus ohmygosh-ohmygosh-ohmygoosh = E100(#{#{#}#}#){#^^^#}#100

(???) centurihexachulthumus ohmygosh-ohmygosh-ohmygoosh = E100(#{#{#}#}#){#{4}#}#100

(???) centuriheptachulthumus ohmygosh-ohmygosh-ohmygoosh = E100(#{#{#}#}#){#{5}#}#100

(???) centuriogdachulthumus ohmygosh-ohmygosh-ohmygoosh = E100(#{#{#}#}#){#{6}#}#100

(???) centuriennachulthumus ohmygosh-ohmygosh-ohmygoosh = E100(#{#{#}#}#){#{7}#}#100

(???) centuridekachulthumus ohmygosh-ohmygosh-ohmygoosh = E100(#{#{#}#}#){#{8}#}#100

(???) duvad ohmygosh-ohmygosh-ohmygoosh = E100(#{#{#}#}#){#{#}#}#100

(???) iteratevad ohmygosh-ohmygosh-ohmygoosh = E100#{#{#}#}#>#100

(???) turregodsgodgulus-vad ohmygosh-ohmygosh-ohmygoosh = E100#{#{#}#}#>#{#}#100

(???) turrecenturion-vad ohmygosh-ohmygosh-ohmygoosh = E100#{#{#}#}#>#{#^#}#100

(???) turrecenturitethraion-vad ohmygosh-ohmygosh-ohmygoosh = E100#{#{#}#}#>#{#^^#}#100

(???) turrecenturipentachultuion-vad ohmygosh-ohmygosh-ohmygoosh = E100#{#{#}#}#>#{#^^^#}#100

(???) turrecenturihexachultuion-vad ohmygosh-ohmygosh-ohmygoosh = E100#{#{#}#}#>#{#{4}#}#100

(???) turrecenturiheptachultuion-vad ohmygosh-ohmygosh-ohmygoosh = E100#{#{#}#}#>#{#{5}#}#100

(???) turrecenturioctachultuion-vad ohmygosh-ohmygosh-ohmygoosh = E100#{#{#}#}#>#{#{6}#}#100

(???) turrecenturiennachultuion-vad ohmygosh-ohmygosh-ohmygoosh = E100#{#{#}#}#>#{#{7}#}#100

(???) turrecenturidekachultuion-vad ohmygosh-ohmygosh-ohmygoosh = E100#{#{#}#}#>#{#{8}#}#100

(???) dustaculated ohmygosh-ohmygosh-ohmygoosh = E100#{#{#}#}#>#{#{#}#}#100

(???) crossed ohmygosh-ohmygosh-ohmygoosh = E100#{#{#}#}##100

(???) toped ohmygosh-ohmygosh-ohmygoosh = E100#{#{#}#}#^#100

(???) topigodsgodgulus-ed ohmygosh-ohmygosh-ohmygoosh = E100#{#{#}#}#{#}#100

(???) topicenturion-ed ohmygosh-ohmygosh-ohmygoosh = E100#{#{#}#}#{#^#}#100

(???) topicenturitethraion-ed ohmygosh-ohmygosh-ohmygoosh = E100#{#{#}#}#{#^^#}#100

(???) topicenturipentacthuluion-ed ohmygosh-ohmygosh-ohmygoosh = E100#{#{#}#}#{#^^^#}#100

(???) topicenturihexacthuluion-ed ohmygosh-ohmygosh-ohmygoosh = E100#{#{#}#}#{#{4}#}#100

(???) topicenturiheptacthuluion-ed ohmygosh-ohmygosh-ohmygoosh = E100#{#{#}#}#{#{5}#}#100

(???) topicenturioctacthuluion-ed ohmygosh-ohmygosh-ohmygoosh = E100#{#{#}#}#{#{6}#}#100

(???) topicenturiennacthuluion-ed ohmygosh-ohmygosh-ohmygoosh = E100#{#{#}#}#{#{7}#}#100

(???) topicenturidekacthuluion-ed ohmygosh-ohmygosh-ohmygoosh = E100#{#{#}#}#{#{8}#}#100

(???) triarxited ohmygosh-ohmygosh-ohmygoosh = E100#{#{#}#}#{#{#}#}#100

(???) tetarxited ohmygosh-ohmygosh-ohmygoosh = E100#{#{#}#+1}#4

(???) pentarxited ohmygosh-ohmygosh-ohmygoosh = E100#{#{#}#+1}#5

(???) hexarxited ohmygosh-ohmygosh-ohmygoosh = E100#{#{#}#+1}#6

(???) heptarxited ohmygosh-ohmygosh-ohmygoosh = E100#{#{#}#+1}#7

(???) ogdarxited ohmygosh-ohmygosh-ohmygoosh = E100#{#{#}#+1}#8

(???) ennarxited ohmygosh-ohmygosh-ohmygoosh = E100#{#{#}#+1}#9

(???) deckarxited ohmygosh-ohmygosh-ohmygoosh = E100#{#{#}#+1}#10

Afterwards, we have to use centuri and ve roots for hyperoperator addition.

(???) centuigodgodsgul-venus = E100#{#{#}#+1}#100

(???) centuigodgodsgul-godgulus = E100#{#{#}#+#}#100

(???) centuigodgodsgul-vecenturion = E100#{#{#}#+#^#}#100

(???) centuigodgodsgul-vecenturitethraion = E100#{#{#}#+#^^#}#100

(???) centuigodgodsgul-vecenturipentacthuluion = E100#{#{#}#+#^^^#}#100

(???) centuigodgodsgul-vecenturihexacthuluion = E100#{#{#}#+#{4}#}#100

(???) centuigodgodsgul-vecenturiheptacthuluion = E100#{#{#}#+#{5}#}#100

(???) centuigodgodsgul-vecenturiogdacthuluion = E100#{#{#}#+#{6}#}#100

(???) centuigodgodsgul-vecenturiennacthuluion = E100#{#{#}#+#{7}#}#100

(???) centuigodgodsgul-vecenturidekacthuluion = E100#{#{#}#+#{8}#}#100

(???) centuigodgodsgulisecundúm = E100#{#{#}#+#{#}#}#100
(???) centuigodgodsgulithirdúm = E100#{#{#}#+#{#}#+#{#}#}#100
(???) centuigodgodsgulitethúm = E100#{#{#}#*#}#4
(???) centuigodgodsgulipentúm = E100#{#{#}#*#}#5
(???) centuigodgodsgulihexúm = E100#{#{#}#*#}#6
(???) centuigodgodsgulihepúm = E100#{#{#}#*#}#7
(???) centuigodgodsguliogdúm = E100#{#{#}#*#}#8
(???) centuigodgodsgulinonúm = E100#{#{#}#*#}#9
(???) centuigodgodsgulidecúm = E100#{#{#}#*#}#10

(???) centuigodsgodgulus-by-hyperion = E100#{#{#}#*#}#100
(???) centuideutergodsgodgulion = E100#{#{#}#*#{#}#}#100
(???) centuigodsgodgulusfaction = E100#{(#{#}#)^#}#100
(???) centuiterrigodsgodgulion = E100#{(#{#}#)^^#}#100
(???) centuigrevigodsgodgulion = E100#{(#{#}#){#}#}#100
(???) centuigodsgodgulcrossion = E100#{#{#}##}#100
(???) centuigreedsgodgulion = E100#{#{#+1}#}#100
(???) centuigodgodeusion = E100#{#{#+#}#}#100
(???) centuisquariardúmion = E100#{#{##}#}#100

(???) centuicenturion = E100#{#{#^#}#}#100

(also called (???) centur-centurion)

(???) centuicenturivenusion = E100#{#{#^#+1}#}#100
(???) centuicenturisecundúmion = E100#{#{#^#+#^#}#}#100
(???) centuicenturigridgahion = E100#{#{#^#*#}#}#100
(???) centuicenturitethraion = E100#{#{#^^#}#}#100
(???) centuicenturipentacthuluion = E100#{#{#^^^#}#}#100
(???) centuicenturihexacthuluion = E100#{#{#{4}#}#}#100
(???) centuicenturiheptacthuluion = E100#{#{#{5}#}#}#100
(???) centuicenturiogdacthuluion = E100#{#{#{6}#}#}#100
(???) centuicenturiennacthuluion = E100#{#{#{7}#}#}#100

(???) centuicenturidekacthuluion = E100#{#{#{8}#}#}#100

4 layers in! We are at sight on reaching the expansion hyperoperator!

(???) ohmygosh-ohmygosh-ohmygosh-ohmygoosh = E100#{#{#{#}#}#}#100

(also called (???) centuricenturicenturion)

To simplify and also end this quicker, we have to introduce the next suffix similar to arxi series. Meet the cousin, “taxi!” (Thanks to Username5243)

This also closes the cushion for a long-lasting regiment! Farewell, godsgodgulus series.

(???) godsgodgultaxitri = E100#{#{#}#}#100

(???) godsgodgultaxitet = E100#{#{#{#}#}#}#100

(???) godsgodgultaxipent = E100#{#{#{#{#}#}#}#}#100

(???) godsgodgultaxihex = E100#{#{#{#{#{#}#}#}#}#}#100

(???) godsgodgultaxihept = E100#{#{#{#{#{#{#}#}#}#}#}#}#100

(???) godsgodgultaxiogd = E100#{#{#{#{#{#{#{#}#}#}#}#}#}#}#100

(???) godsgodgultaxienn = E100#{#{#{#{#{#{#{#{#}#}#}#}#}#}#}#}#100

(???) godsgodgultaxideck = E100#{#{#{#{#{#{#{#{#{#}#}#}#}#}#}#}#}#}#100

We finally met the monstrous super-regiment of 4 entry arrays! Get ready. We are going to the hellish coaster!

Blasphemorgulus Regiment

#{{1}}# - #{{2}}#

phi(1,0,0,0)

Remember Sbiis ended Hyper-Extended Cascading-E Notation with a monstrous number?

(???) blashphemorgulus = E100#{{1}}#100

He however defined {_,#,1,2} arrays only, along with {_,#+1,1,2} by his climbing theory.

However, he conclude that {_,#+2,1,2} doesn’t continue the nestings of {_,#+n,1,2} sequence in 4.3.12.

So, to continue. I have to think outside of the box! Remember the Extended Cascading-E Notation? This also fits 4-entry arrays also!

From Bower's theory of structures, X is an ordinal. So, X{X{...}X}X always be described by X{{1}}X no matter what.

It can be proved by expanding X{{1}}X to X{X{{1}}(1-X)}X, like expanding into X^(X^^(-1+X)) = X^(X^^X)

[by ordinal addition: this is like -1+w=w, which when we add any integer by w, we could always get w.]

#{{1}}# -> X{{1}}X = X{X{{1}}(-1+X)}X+1 = X{X{{1}}X}X

(#{{1}}#)^# -> (X{X{{1}}X}X)^X

(#{{1}}#)^^# -> (X{X{{1}}X}X)^X

(#{{1}}#){#}# -> (X{X{{1}}X}X)^X

(#{{1}}#){#{#}#}# -> (X{X{{1}}X}X)^X

(#{{1}}#){#{{1}}#}# -> (X{X{{1}}X}X){X{{1}}X}X

Now, expand that first #{{1}}#. This results that:

((#{#{{1}}#}#){#{{1}}#}#){#{{1}}#}# -> ((X{X{{1}}X}X){X{{1}}X}X){X{{1}}X}X

From the caret operation, (a*)># always lead to a*^n, which a is applied by * operation infinitely. With that first #{{1}}# offset:

(#{{1}}#){#{{1}}#}#># -> X{X{{1}}X}X|X

(#{{1}}#){#{{1}}#}## -> X{X{{1}}X}X^2

(#{{1}}#){#{{1}}#}(#{{1}}#) -> X{X{{1}}X}X{X{{1}}X}X

(#{{1}}#){#{{1}}#}(#{{1}}#){#{{1}}#}(#{{1}}#) -> X{X{{1}}X}X{X{{1}}X}X{X{{1}}X}X

(#{{1}}#){#{{1}}#+1}# -> X{X{{1}}X+1}X = X{X{X{{1}}(-1+X)}X+1}X = X{X{X{{1}}X}X+1}X

Now, repeat this above infinitely, as we are in 1 hyperoperator layer down.

Now, let's look at Bower's Climbing Theory for tetrational structures:

X^^X*X -> X^(X^^(-1+X))*X -> X^(X^^(-1+X)+1)

X^(X^^(-1+X)*X) -> X^(X^(X^^(-2+X))*X) -> X^X^(X^^(-2+X)+1)

X^X^(X^^(-3+X)*X) -> X^X^(X^(X^^(-3+X))*X) -> X^X^X^(X^^(-3+X)+1)

...

X^X...X^X^(X^^(-X+X)+1) -> X^X...X^X^(X^^0+1) = X^X...X^X^(1+1)?

Let's expand infinitely to make sure Bower's Climbing Theory is true to expansion.

X{{1}}X -> X{X{{1}}(-1+X)}X

X{X{{1}}(-1+X)}X -> X{X{X{{1}}(-2+X)}X}X

X{X{X{{1}}(-2+X)}X}X -> X{X{X{X{{1}}(-3+X)}X}X}X

...

We need to simplify this expansion. Let's theorize that {{1}} expands into {{0}}s, and then prove a{{0}}b = a{b}a.

- b = 1: a{{1}}1 = a
- b > 1: a{{1}}b = a{{0}}a{{1}}(b-1)

Proof that a{{0}}b = a{b}a.

- a{{1}}2 = a{a}a [b = a] => a{{0}}a
- a{{1}}3 = a{a{{1}}2}a [b = a{{1}}2 => a{{0}}a] => a{{0}}a{{0}}a
- a{{1}}b = a{a{{1}}(b-1)}a [b = a{{1}}(b-1)] => a{{0}}a{{1}}(b-1)

Let's redo with a new {{0}} hyperoperator which I call it Aperiotion:

A{{1}}X -> A{{0}}A{{1}}(-1+X)

-> A{{0}}A{{0}}A{{1}}(-2+X)

-> A{{0}}A{{0}}A{{0}}A{{1}}(-3+X)

...

Wait. Look above again, eh? How to solve a{b}0?

We have $a^0 = 1$. If I change b = 1 -> a to b = 0 -> 1, this happens:

- a^^1 = a^a^^0 = a^1 = a
- a^^^1 = a^^a^^^0 = a^^1 (previous step repeats)
- a{n}1 = a{n-1}a{n}0 = a{n-1}1 (previous steps repeat)

The problem for a{{1}}1 is it would become a{{0}}1 = a{1}a = a^a, which is incorrect from hyper-operator theory. Same goes to a{{0}}1 = a*a which a{{0}}b is already defined for all b's.

Thus, this needs an extension to define a new degenerate case for b = 0 which the value returns 1.

/// /// [UNDER CONSTRUCTION] /// ///

Expand-E Notation (E<>)

Definition for Expand-E Notation (E<>):

This consults #xE^ with new changes as following:

- Any positive integer is a member of the successor.
- Let *(a) denotes {} set, which is a set of {b}^c, where b and c are hyperion sums or hyperproducts.
    - *(a) replaces the {n} set from #xE^.
    - a*(b)c is a set of x^, where *(b) is a {} set.
        - n ^s denotes {n}^1.
        - {{...{{a}}...}} with b braces denotes {a}^b.
        - {a,b,c,d} denotes a{b}^(c)d.

a*(b)c =

- I: For *(b) = ^ = {1}^1: Do E^ rules normally.
- II: For c = # and *(b) = {d}^e:
    - II-a: For d is lim: a({d}^e)#[n] = a({d[n]}^e)#
    - II-b: For d is succ:
        - n = 1: a({d}^e)#[1] = a
        - n > 1: a({d}^e)#[n] = a({d-1}^e)(a({d}^e)#[n-1])
    - II-c: For d = 1 and e is lim:
        - a({1}^e)#[n] = a({1}^e[n])#
    - II-d: For d = 1 and e is succ:
        - n = 1: a({1}^e)#[1] = a
        - n > 1: a({1}^e)#[n] = a({a({1}^e)#[n-1]}^(e-1))a
- III: For c = p*#:
    - n = 1: a*(b)(p*#)[1] = a*(b)p
    - n > 1: a*(b)(p*#)[n] = a*(b)p>a*(b)(p*#)[n-1]
- IV: For c is lim other than c = # and c = p*#:
    - a*(b)c[n] = a*(b)(c[n])

When (p*#) can't be applied by all existing rules, consult the hyperion sum. This is only applied by taking the fundamental sequence of a limit member.

- (p*#)[1] = p
- (p*#)[n] = p+(p*#)[n-1]

a = b + c, where b is a hyperproduct or hyperion sum and c is a hyperproduct or a positive integer:

- c is 0: a = b
- c is lim:
    - a is a member of lim.
    - (b+c)[n] = b+(c[n])
- c is succ:
    - a is a member of succ.
    - (b+c)-1 = b+(c-1)

Also consult the fundamental sequence of #: #[n] = n

/// /// [UNDER CONSTRUCTION] /// ///

blashphemorgulfact = E100(#{{1}}#)^#100

grievous blashphemorgulus = E100(#{{1}}#){#}#100
(also called godsgoblashphemorgulus)

godsgodgultaxitriumus blashphemorgulus = E100(#{{1}}#){#{#}#}#100
(also called ohmygosh-ohmygosh-ohmygoooblashphemorgulus)

godsgodgultaxitetumus blashphemorgulus = E100(#{{1}}#){#{#{#}#}#}#100

godsgodgultaxipentumus blashphemorgulus = E100(#{{1}}#){#{#{#{#}#}#}#}#100

godsgodgultaxihexumus blashphemorgulus = E100(#{{1}}#){#{#{#{#{#}#}#}#}#}#100

godsgodgultaxiheptumus blashphemorgulus = E100(#{{1}}#){#{#{#{#{#{#}#}#}#}#}#}#100

godsgodgultaxiogdumus blashphemorgulus = E100(#{{1}}#){#{#{#{#{#{#{#}#}#}#}#}#}#}#100

godsgodgultaxiennumus blashphemorgulus = E100(#{{1}}#){#{#{#{#{#{#{#{#}#}#}#}#}#}#}#}#100

godsgodgultaxidecktumus blashphemorgulus = E100(#{{1}}#){#{#{#{#{#{#{#{#{#}#}#}#}#}#}#}#}#}#100

blashphemorgumus blashphemorgulus = E100(#{{1}}#){#{{1}}#}#99?!

blasphemu-tethrathoth = E100(#{{1}}#)^^(#{{1}}#)10
(also called terriblashphemorgulus blashphemorgulus)

blasphemu-pentacthulhum = E100(#{{1}}#)^^^(#{{1}}#)10
(also called horriblashphemorgulus blashphemorgulus)

blasphemu-goliath = E100(#{{1}}#){#}(#{{1}}#)10

blasphemu-goligog = E100(#{{1}}#){#}(#{{1}}#)50

blasphemu-godgulus = E100(#{{1}}#){#}(#{{1}}#)100

blasphesquarardiúm = E100(#{{1}}#){##}(#{{1}}#)100

blasphem-centurion = E100(#{{1}}#){#^#}(#{{1}}#)100

blasphem-centurtethraion = E100(#{{1}}#){#^^#}(#{{1}}#)100

blasphemu-godgultaxitri = E100(#{{1}}#){#{#}#}(#{{1}}#)100

blasphemu-godgultaxitet = E100(#{{1}}#){#{#{#}#}#}(#{{1}}#)100

E100(#{{1}}#){#{{1}}#}(#{{1}}#)100
(also called blasphemormygosh-blasphemormygosh)

E100(#{{1}}#){(#{{1}}#){#{{1}}#}(#{{1}}#)}(#{{1}}#)100
(also called blasphemormygosh-blasphemormygosh-blasphemormygosh)

tweilasphemorgue = E100(#{{1}}#){{1}}100
(also called blasphemous blashphemorgulus)

blashphemorguliterator = E100#{{1}}#>#100
(also called hundrelasphemorgue)

blashphemorgulgriditerator = E100#{{1}}#>##100
(also called ludicriss)

blashphemorgulcubiterator = E100#{{1}}#>###100

dustaculated blashphemorgulus = E100#{{1}}#>#{{1}}#100
(also called blasphemorgudubbus)

tristaculated blashphemorgulus = E100#{{1}}#>#{{1}}#>#{{1}}#100
(also called blasphemorgutrebbus)

tetrastaculated blashphemorgulus = E100#{{1}}##4
(also called blasphemorguquabbus)

blashphemorgulcross = E100#{{1}}##100
(really close to astralthrathoth)

blashphemorgultope = E100#{{1}}#^#100

blashphemorgularxitri = E100#{{1}}#{{1}}#100

lucidirouklum? multirouklum? = E100#{{2}}#100
(Username called this blasphedicthulhum)

trisserouklum? powerouklum? = E100#{{3}}#100
(Username called this blasphetricthulhum)

tetrarouklum? = E100#{{4}}#100

pentarouklum? = E100#{{5}}#100

hexarouklum? = E100#{{6}}#100

heptarouklum? = E100#{{7}}#100

ogdarouklum? = E100#{{8}}#100

ennarouklum? = E100#{{9}}#100

dekarouklum? = E100#{{10}}#100

/// /// [UNDER CONSTRUCTION] /// ///

Deusus-godsgodgogle Regiment

(name author: Sbiis)

#{{#}}# - #{{{#}}}#

phi(1,w,0,0)

deusus-goliath = E100#{{#}}#10

deusus-goligog = E100#{{#}}#50

deusus-godsgodgogle = E100#{{#}}#100

(Username called this blasphegodgulus)

deusus-greedsgodgogle = E100#{{#+1}}#100

deusus-godsgodeus = E100#{{#+#}}#100

deusus-squariardum = E100#{{##}}#100

deusus-centurion = E100#{{#^#}}#100

deusus-centuriblashphemorgulion = E100#{{#{{1}}#}}#100

deuse-ohmygosh-ohmygosh-ohmygoosh = E100#{{#{{#}}#}}#100

nuclearemorgulus = E100#{{{1}}}#100

(Username called this trilasphemorgulus)

nuclear lucidirouklum = E100#{{{2}}}#100

nuclear trisserouklum = E100#{{{3}}}#100

nuclear tetrarouklum = E100#{{{4}}}#100

nuclear pentarouklum = E100#{{{5}}}#100

nuclear hexarouklum = E100#{{{6}}}#100

nuclear heptarouklum = E100#{{{7}}}#100

nuclear ogdarouklum = E100#{{{8}}}#100
nuclear ennarouklum = E100#{{{9}}}#100
nuclear dekarouklum = E100#{{{10}}}#100

/// /// [UNDER CONSTRUCTION] /// ///

Treus-godgodgogle Regiment

(name author: Sbiis)
#{{{#}}}# - #{#}$^{\#}$#
phi(2,w,0,0)

treus-godsgodgogle = E100#{{#}}#100
treuse-ohmygosh-ohmygosh-ohmygoosh = E100#{{{#{{{#}}}#}}}#100

detonatemorgulus = E100#{{{{1}}}}#100
detonator lucidirouklum = E100#{{{{2}}}}#100
detonator trisserouklum = E100#{{{{3}}}}#100
detonator tetrarouklum = E100#{{{{4}}}}#100
detonator pentarouklum = E100#{{{{5}}}}#100
detonator hexarouklum = E100#{{{{6}}}}#100
detonator heptarouklum = E100#{{{{7}}}}#100
detonator ogdarouklum = E100#{{{{8}}}}#100
detonator ennarouklum = E100#{{{{9}}}}#100
detonator dekarouklum = E100#{{{{10}}}}#100

quaddus-godsgodgogle = E100#{#}^{4}#100
pentonatemorgulus = E100#{1}^{5}#100
quidus-godsgodgogle = E100#{#}^{5}#100
siddus-godsgodgogle = E100#{#}^{6}#100
sepidus-godsgodgogle = E100#{#}^{7}#100
ogdidus-godsgodgogle = E100#{#}^{8}#100
ennidus-godsgodgogle = E100#{#}^{9}#100

dekidus-godsgodgogle = E100#{#}^{10}#100

/// /// [UNDER CONSTRUCTION] /// ///

General Gogulus Regiment

(name author: Sbiis)

#{#}$^{\#}$# - #[{1}]#

phi(w,0,0,0)

colonegogulus = E100#{1}$^{\#}$#100

(Username called this godsgolasphemorgulus)

colonel lucidirouklum = E100#{2}$^{\#}$#100

colonel trisserouklum = E100#{3}$^{\#}$#100

colonel tetrarouklum = E100#{4}$^{\#}$#100

colonel pentarouklum = E100#{5}$^{\#}$#100

colonel hexarouklum = E100#{6}$^{\#}$#100

colonel heptarouklum = E100#{7}$^{\#}$#100

colonel ogdarouklum = E100#{8}$^{\#}$#100

colonel ennarouklum = E100#{9}$^{\#}$#100

colonel dekarouklum = E100#{10}$^{\#}$#100

general gogulus = E100#{#}$^{\#}$#100

(Username called this tethyperatrix or godsgolasphegodgulus)

Diabhaleguton Regiment (beta)

(name author: me)

#[{1}]# and beyond?!

phi(1,0,0,0,0)

We have finally passed Expand-E Notation, ending the journey of hyperoperators.

Now, let's introduce the final number in this part. It is going to be devious as megoton!

(???) diabhaleguton = E100#[{1}]#100

“diabhal” (devil in irish) + corrupted “megoton”

(tip: a[{}]1 = n, and a{a}^(a[{1}]b-1)a for b > 1)

(Username called this pententrimorgulus)

This explodes into (???) ??? =

E100#{#}^(#{#}^(#{#}^(...(#{#}^(#)#)...)#)#)#100.

Has exactly 298 #s and 99 nestings of () brackets ending with #! Now you can let your mind explode with imaginations!

/// /// **[UNDER CONSTRUCTION]** /// ///

(???) diabhalegotoxx = (yet to be defined)?

Transfinite Bower's Hyperoperators and 4-entry arrays are just the beginning. I have sealed it off from the unholy stargate and defined it in an ExE way.

Expand-E Notation defines these arrays by an existing climbing theory! There's no need to use another hyperoperator notation like Conway's Arrows.

People might know what #{{1}}#+2 is, as they don't mind trouble with hyperoperators when it comes with post-tetrational arrays.

Formalizing the climbing theory is not that hard for BEAF masters. You can even extend it with linear arrays!

Now for a question for future endeavors: #[{1}]## is equal to... **You know what to do!**

Check out Linear Array-E Notation if you want to go further. (although it’s not formalized)

There's not far away from the next roadblock, where the climbing method stops working. Are we heading for future extensions or stumble at {#,#+1(1)2}?

"Say that you are on the go. There's no trouble that holds you from the go. Ooo- oh."

Oh, check out the extra stuff I recommended reading, if you are curious. They extend the possibilities of ExE number coding range.

- DeepLineMadom’s Extended ExE Numbers (recommended)
- ExE Number Name Generator
- Construction of Guppy Regiment

- ArtismScrub’s Extension to Guppy Regiment
    - Extended Grangol Regiment
- Construction of Beyond Level 10 Regiments

Lightning's out!