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## This script is for automated generation of merged summary tables
## extracted from a list of lme models (nlme library in R)
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## A list of lme models is required as the only input variable
## A proper installation of the reshape and nlme packages is required.
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## written by C. Scherber, 17th November 2009.
## last updated 19th November 2009
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```
extract.lme.summaries=function(modellist){
  require(nlme)
  require(reshape)

  ttables=lapply(modellist,function(x)data.frame(
    name=rep(
      as.character( summary(x)$call) [2],
      dim(summary(x)$tTable) [1]),
    call=rep(
      paste(as.character( summary(x)$call),collapse=" "),
      dim(summary(x)$tTable)[1]),
    params=row.names(data.frame(summary(x)$tTable)),
    data.frame(summary(x)$tTable,stringsAsFactors=F)
  ))

  names(ttables)=names(modellist)
  m1=melt(ttables,id.vars=c("name","call","params"))

  c2=cast(m1,L1+variable+call~params,function(x)mean(x,na.rm=T))
  return(c2)
}
```