

Povzeto po

<http://www.eurofiling.info/eu/fr/xbrl/func/interval-arithmetics.xml>

"function\_sum"

vrne R = rezultat vsote  $A + B + \dots + n$   
vrne T = toleranco rezultata (vsota toleranc členov vsote)

"function\_numeric-equal"

vrne true za  $A = B$ , kadar velja  
 $\text{abs}(A - B) \leq \text{tol}(A) + \text{tol}(B)$

"function\_numeric-less-than"

vrne true za  $A < B$ , kadar velja  
 $A - B < \text{tol}(A) + \text{tol}(B)$

"function\_numeric-less-equal-than"

vrne true za  $A \leq B$ , kadar velja  
 $A - B \leq \text{tol}(A) + \text{tol}(B)$

"function\_numeric-greater-than"

vrne true za  $A > B$ , kadar velja  
 $A > (B - (\text{tol}(A) + \text{tol}(B)))$

"function\_numeric-greater-equal-than"

vrne true za  $A \geq B$ , kadar velja  
 $A \geq (B - (\text{tol}(A) + \text{tol}(B)))$

"function\_numeric-add"

vrne R = rezultat vsote dveh členov  $A + B$   
vrne T = toleranco rezultata =  $\text{tol}(A) + \text{tol}(B)$

"function\_numeric-subtract"

vrne R = rezultat razlike dveh členov  $A - B$   
vrne T = toleranco rezultata =  $\text{tol}(A) + \text{tol}(B)$

"function\_multiply-two-elements"

vrne R = rezultat zmnožka  $A * B$   
vrne T = toleranco zmnožka

$R = A * B$   
 $K0 = ((A - \text{tol}(A)) * (B - \text{tol}(B)))$   
 $K1 = ((A + \text{tol}(A)) * (B + \text{tol}(B)))$   
 $T = \max(\text{abs}(K1 - R), \text{abs}(R - K0))$

"function\_numeric-divide"

vrne R = rezultat deljenja  $A/B$   
vrne T = toleranca rezultata deljenja

$R = A/B$   
 $J0 = ((A - \text{tol}(A)) / (B + \text{tol}(B)))$   
 $J1 = ((A + \text{tol}(A)) / (B - \text{tol}(B)))$   
 $T = \max(\text{abs}(J1 - R), \text{abs}(R - J0))$