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$$\mu_t^k = \frac{\sum_{i=1}^{N}(s_i * w_i * f_i)}{W} \tag{1}$$

$$W = \sum_{i=1}^{N}(w_i * f_i) \tag{2}$$

$$\sigma_t^k = \frac{1}{W}\sqrt{\sum_{i=1}^{N}(s_i^2 * w_i * f_i) * \sum_{i=1}^{N}(w_i * f_i) - \left(\sum_{i=1}^{N} s_i * w_i * f_i\right)^2} \tag{3}$$

$$T^k = \mu_t^k - \sigma_t^k \tag{4}$$

s_i^2
w_i
f_i
μ_t^k
σ_t^k
T^k

$$\mu_r^k = \frac{\sum_{i=1}^{N} \left(T_i^k * T_{rec}^i\right)}{W'} \tag{5}$$

$$\sigma_r^k = \frac{1}{W'} \sqrt{\sum_{i=1}^{N} \left({T_i}^2 * T_{rec}^i\right) * \sum_{i=1}^{N} \left(T_{rec}^i\right) - \sum_{i=1}^{N} \left(T_i^k * T_{rec}^i\right)^2} \tag{6}$$

$$W' = \sum_{i=1}^{N} \left(T_{rec}^i\right) \tag{7}$$

$$R^k = \mu_r^k - \sigma_r^k \tag{8}$$

$_s tep_1.png$0.5 **2** :

T_i^k

T_{rec}^i

μ_r^k

σ_r^k

R^k

$_s tep_2.png$0.55

6
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>
5
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T_{long}
N
T_{short}
N
$\frac{size(logfile)}{10}$
$T = min(T_{long}, T_{short})$

T_{long}
T_{short}
T_{short}
T_{long}
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7
–
$Threshold =$
i
$Best =$
0
$Trust =$
0
,
$Service$
$T_{short} = \frac{size(logfile)}{10}$
$T_{short} =$
1.0
$T_{long} = size\,(logfile)$
$T =$
$min(T_{long}, T_{short})$
$T >$
$Trust$
$Trust \geq$
$threshold$
$(thresholdindicateslowseverity)\,AND\,(Math.random() \leq 0.1)$

$transative$
$trust$
$_{8}$
$\bar{}$
$Threshold =$
t
$Best =$
0
$Trust =$
0
$_{i}$
$Recommendation$
$T_{short} = \frac{size(logfile)}{10}$
$T_{short} =$
1.0
$T_{long} = size\,(logfile)$
$T =$
$min(T_{long}, T_{short})$
$T >$
$Trust$
$Trust \geq$
$threshold$

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