MIPS = 
$$\frac{10^6 \cdot (543 + 346 + 475 + 256 + 235)}{10^6 \cdot (56 + 59 + 913 + 132 + 120)} = \frac{1795}{480} = 3,73$$

2. 
$$\frac{\sum_{i=0}^{2} (NI_{i} \cdot CPI)}{NI} = \frac{\sum_{i=0}^{2} (NI_{i} \cdot CPI)}{3 \cdot (543+346+415) + 5 \cdot (256+235)} = \frac{6367}{1795} = \frac{6367}{1795}$$

7. 
$$SPEC_{gp-reak} = \sqrt[14]{\frac{1600}{419}} \cdot \frac{3100}{562} \cdot \frac{1800}{607} \cdot \frac{2100}{658} \cdot \dots = 3,47$$
 $SPEC_{gp-reak} = \sqrt[14]{\frac{1600}{300}} \cdot \frac{3100}{562} \cdot \frac{1800}{607} \cdot \frac{2100}{605} \cdot \dots = 3,74$ 

2. Total base = 
$$$354$$
  $5 = \frac{28700}{8354} = \frac{3,44}{8354}$ 
Total ref =  $28700$ 

3. Totalbase = 8354 
$$S = \frac{8354}{7937} = 7,05$$
  
Totalpeak = 7937

$$A = \sqrt[5]{\frac{2609}{503}} \cdot \frac{2709}{634} \cdot \frac{9809}{707} \cdot \frac{2309}{748} \cdot \frac{1809}{363} - 5,12$$

$$A = \sqrt{\frac{503}{503}} \frac{634}{634} \frac{707}{707} \frac{748}{748} \frac{363}{363}$$

$$B = \sqrt{\frac{2600}{539}} \frac{2100}{762} \frac{9800}{716} \frac{2300}{760} \frac{1800}{235} - 5,37$$

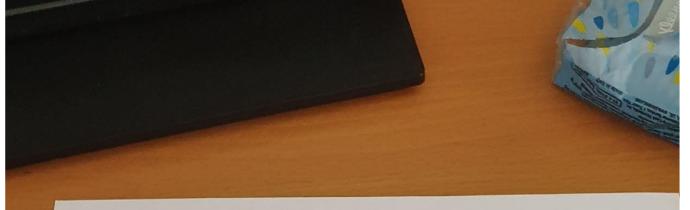
$$\vec{J} = (48-45) + (35-32) + (56-51) + (49-43) + (51-48) = 4$$

$$5 = \int_{i=1}^{2} (d_{i}J - d)^{2} = \sqrt{1 + 1 + 1 + 4 + 1} = \sqrt{2}$$

$$t_{exp} = \frac{\bar{J}}{\sqrt{n}} = \frac{4}{\sqrt{z}} = 6/33$$

Recharans la hipotesis mula

$$5 = \frac{48 + 35 + 56 + 49 + 57}{45 + 32 + 57 + 43 + 48} = \frac{239}{279} = 7,09$$



4.13
$$SPEC_{A} = \sqrt[4]{\frac{10319}{96,2} \cdot \frac{5318}{1311}} \cdot \frac{156,3}{7916} \cdot \frac{98,1}{45,2} \cdot \frac{23875}{8813} = 2,20$$

$$Total_{A} = 96,2,13,1,79,6+45,2+8813 = 322,4$$

$$SPEC_{B} = 5\sqrt{\frac{10319}{95,3} \cdot \frac{5318}{1012} \cdot \frac{15613}{6714} \cdot \frac{98,1}{5719} \cdot \frac{23815}{897,3}} = 2,32$$

$$Total_{B} = 95,3+10,2+67,4+57,8+89,3=374$$

Ho + RA = RB

$$d_{i} = Ai - Bi$$

$$d_{1} = 4612 - 9513 = 019$$

$$d_{2} = 13.1 - 10.2 = 2.9$$

$$d_{3} = 49.6 - 62.4 = 72.7$$

$$d_{4} = 45.2 - 51.8 = -6.6$$

$$d_{5} = 8813 - 89.3 = -1$$

$$5 = \sqrt{\frac{(0.9 - 1.68)^2 + (2.9 - 1.68)^2 + (72.2 - 3.68)^2 + (-6.6 - 1.68)^2 + (-1 - 1.68)^2}{4}}$$

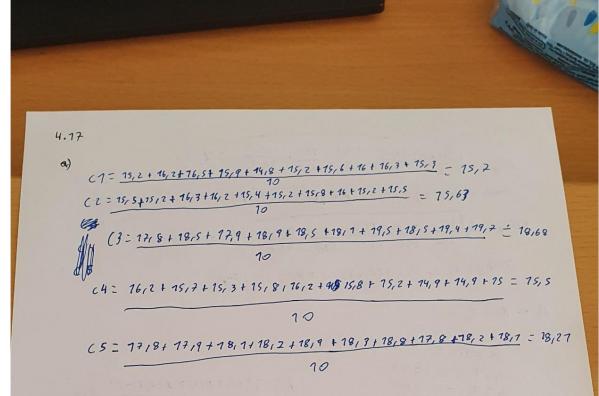
$$= \sqrt{\frac{188}{4}} = 6.86$$

$$I_c = \left[\overline{d} - \frac{5}{7n} \frac{t \times 1}{2}, n-1\right] / \overline{d} + \frac{5}{7n} \cdot \frac{t \times 1}{2}, n-1$$

Intervals de confiants 
$$[1,68 - \frac{6,86}{15} \cdot 2,78]$$
  $[1,68 + \frac{6,86}{15} \cdot 2,78]$   $= [-6,185,170,27]$ 

Para Ho verdadera 0 € [-6,85,79,27]

No haz diforencia signification



C3 & la mejor

Control

- B) for que la Ho se compla & el poolve de ANOVA tiene que ser mayor que 0105. En nuestra cosa es 0,00... osi que la Ho en falsa
- () Comprobando la columna Sig. " venas que los configuraciones 1, 2, 4 afectar igual al rendimienta pero la 3 y la 5 recharan la Ripotesis siendo la configuración 3 la mejor.

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