

Ejercitación Nro. 2

Modos de Representación

Utilizando los mismos datos que en el Ejercicio 1, realicemos la segunda etapa de esta Ejercitación.

Utilizar estos cuatro conjuntos de datos

- $A=20$ y $B=14$
- $A=54$ y $B=19$
- $A=187$ y $B=137$
- $A=178$ y $B=145$

Tareas a realizar, utilizar las plantillas adjuntas

Segunda Etapa

1. Convertir ambos numeros a Naturales de 8 bits. (solo binarios)
2. Realizar la suma en binario y calcular los flags
3. Realizar la resta A-B en binario y calcular los flags
4. Analizar los flags y sacar conclusiones considerando a A y B Naturales
5. Analizar los flags y sacar conclusiones considerando A y B Enteros
6. En el caso de las restas, analizar de acuerdo a los flags la relación mayor-menor entre Minuendo y Sustraendo, tanto para Naturales y Enteros
7. Comprobar que lo calculado en 4 y 6 es correcto, convirtiendo a decimal
8. Comprobar que lo calculado en 5 y 6 es correcto, convirtiendo a decimal

CONJUNTO DE DATOS a.

Suma y Resta Naturales / Enteros 8 bits, para conjunto de datos a.

The diagram illustrates the ALU structure with four functional units, each represented by a vertical stack of three rectangular boxes (input, operation, output). The units are labeled at the top: **Decimal**, **Binario Suma**, **Binario Resta**, and **Resta Operación**.

- Decimal Unit:** Labeled with a '+' on the left. It has three input boxes, a horizontal line, and two output boxes. It is associated with status flags: $C = 0$, $V = 0$, $S = 0$, and $Z = 0$.
- Binario Suma Unit:** Labeled with a '+' on the left. It has three input boxes, a horizontal line, and one output box. It is associated with status flags: $C = 0$, $V = 0$, $S = 0$, and $Z = 0$.
- Binario Resta Unit:** Labeled with a '-' on the left. It has three input boxes, a horizontal line, and one output box. It is associated with status flags: $C = 0$, $V = 0$, $S = 0$, and $Z = 0$.
- Resta Operación Unit:** Labeled with a '+' on the left. It has three input boxes, a horizontal line, and one output box. It is associated with status flags: $C = 0$, $V = 0$, $S = 0$, and $Z = 0$.

Arrows indicate data flow:

- An arrow from the output box of the **Binario Suma** unit points to the second output box of the **Decimal** unit.
- An arrow from the output box of the **Binario Resta** unit points to the first output box of the **Decimal** unit.

Naturales

Resultado Suma
Por qué?

Correcto
C=0

Resultado Resta
Por qué?

Correcto
C=0

Enteros

Resultado Suma
Por qué?

Correcto
V=0

Resultado Resta
Por qué?

Correcto
 $V=0$

Comparación Mayor Menor – Comprobación de Enteros

Naturales

Minuendo > Sustraendo
De acuerdo a Flags:

Enteros

Minuendo > Sustraendo
De acuerdo a Flags:

<p>Comprobación Enteros SUMA:</p> <p>Resultados UAL</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <hr style="border: 1px solid black;"/> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <p>Resultado Correcto:</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>	<p>Comprobación Enteros RESTA:</p> <p>Resultados UAL</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <hr style="border: 1px solid black;"/> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <p>Resultado Correcto:</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>
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CONJUNTO DE DATOS b.

Suma y Resta Naturales / Enteros 8 bits, para conjunto de datos b.

Decimal	Binario Suma	Binario Resta	Resta Operación
+	+	-	+
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Naturales

Resultado Suma ➔ Correcto
Por qué? **C=0**

Resultado Resta ➔ Correcto
Por qué? **C=0**

Enteros

Resultado Suma ➔ Correcto
Por qué? **V=0**

Resultado Resta ➔ Correcto
Por qué? **V=0**

Comparación Mayor Menor – Comprobación de Enteros

Naturales

Minuendo **>** Sustraendo
De acuerdo a Flags:

Enteros

Minuendo **>** Sustraendo
De acuerdo a Flags:

<p>Comprobación Enteros SUMA:</p> <p>Resultados UAL</p> <div style="border: 1px solid black; width: 150px; height: 20px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; width: 150px; height: 20px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; width: 150px; height: 20px; margin-bottom: 5px;"></div> <p style="text-align: center;">Resultado Correcto:</p> <div style="border: 1px solid black; width: 150px; height: 20px;"></div>	<p>Comprobación Enteros RESTA:</p> <p>Resultados UAL</p> <div style="border: 1px solid black; width: 150px; height: 20px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; width: 150px; height: 20px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; width: 150px; height: 20px; margin-bottom: 5px;"></div> <p style="text-align: center;">Resultado Correcto:</p> <div style="border: 1px solid black; width: 150px; height: 20px;"></div>
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CONJUNTO DE DATOS c.

Suma y Resta Naturales / Enteros 8 bits, para conjunto de datos c.

Decimal	Binario Suma	Binario Resta	Resta Operación
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Comparación Mayor Menor – Comprobación de Enteros

Naturales

Minuendo > Sustraendo
De acuerdo a Flags:

Enteros

Minuendo > Sustraendo
De acuerdo a Flags:

<p>Comprobación Enteros SUMA:</p> <p>Resultados UAL</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <hr style="border: 1px solid black;"/> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <p>Resultado Correcto:</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>	<p>Comprobación Enteros RESTA:</p> <p>Resultados UAL</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <hr style="border: 1px solid black;"/> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <p>Resultado Correcto:</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>
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CONJUNTO DE DATOS d.

Suma y Resta Naturales / Enteros 8 bits, para conjunto de datos d.

Decimal	Binario Suma	Binario Resta	Resta Operación
+	+	-	+
<div style="border: 1px solid black; height: 20px; width: 100%;"></div>	<div style="border: 1px solid black; height: 20px; width: 100%;"></div>	<div style="border: 1px solid black; height: 20px; width: 100%;"></div>	<div style="border: 1px solid black; height: 20px; width: 100%;"></div>
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Naturales

Resultado Suma ➔ Correcto
Por qué? **C=0**

Resultado Resta ➔ Correcto
Por qué? **C=0**

Enteros

Resultado Suma ➔ Correcto
Por qué? **V=0**

Resultado Resta ➔ Correcto
Por qué? **V=0**

Comparación Mayor Menor – Comprobación de Enteros

Naturales

Minuendo

>

Sustraendo

De acuerdo a Flags:

Enteros

Minuendo

>

Sustraendo

De acuerdo a Flags:

Comprobación
Enteros SUMA:

Resultados UAL

+

Resultado Correcto:

Comprobación
Enteros RESTA:

Resultados UAL

-

Resultado Correcto: