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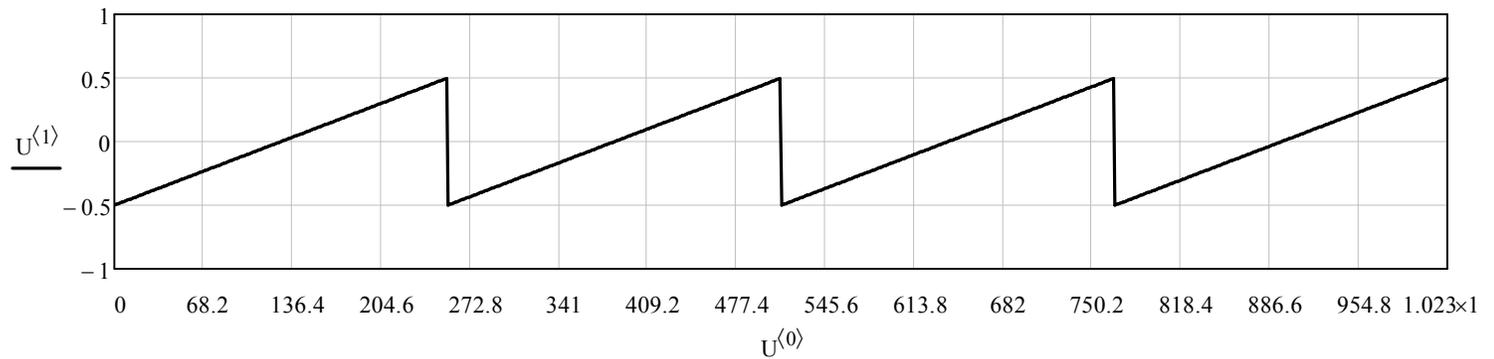
t := 1    N := 210    T := N · t    U0 := 1    f :=  $\frac{1}{N \cdot t}$     start := time(0)
u1 := foreach(r2(0, N/4 - 1), '(n) ←  $\frac{4 \cdot n}{N} - \frac{U_0}{2}$ )
u := selectmany(repeat(u1, 4), '(x) ← x)

```

```

U := | t ← foreach(r2(0, N - 1), '(n) ← n · t)
      | augment(t, u)

```

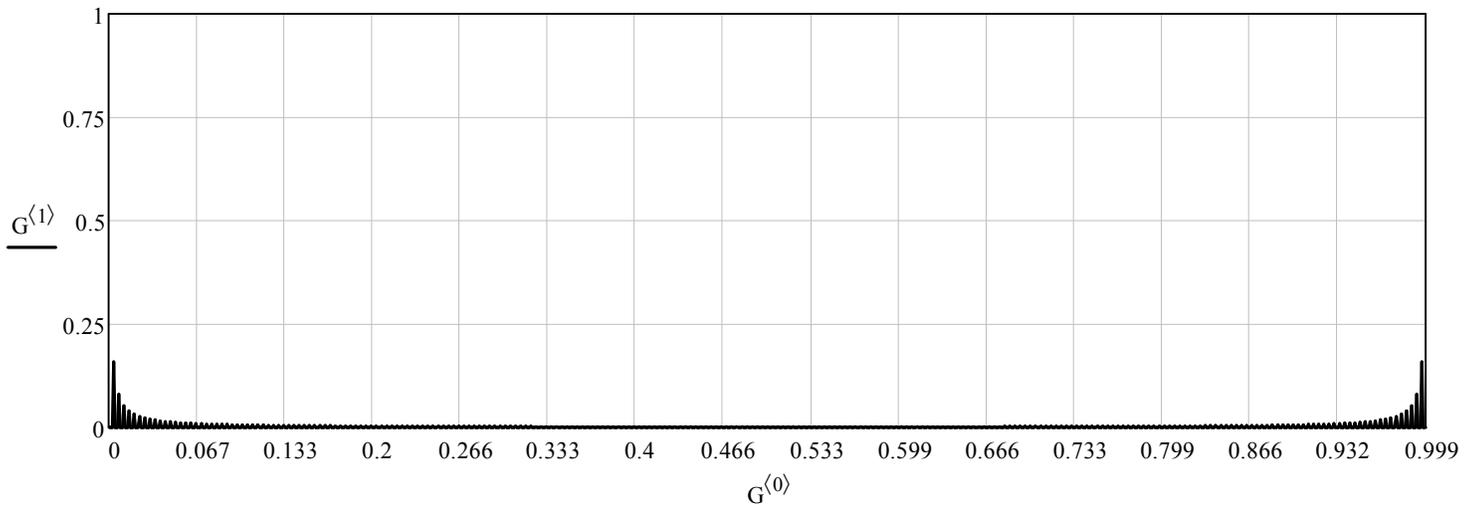


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S := CFFT(u)
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G := | f ← foreach(r2(0, N - 1), '(n) ← n · f)
      | augment(f,  $\vec{|S|}$ )

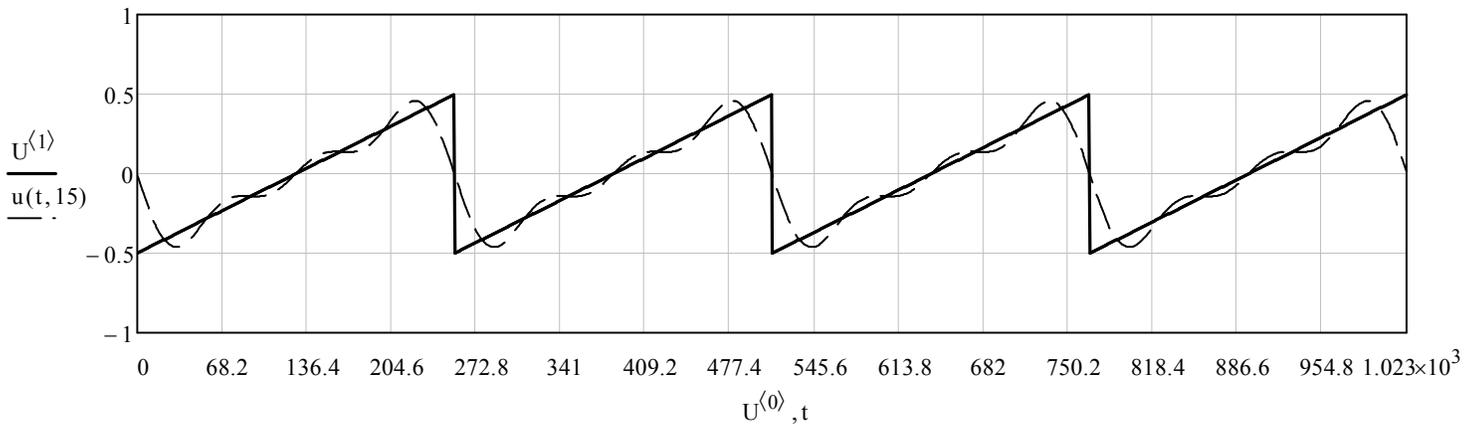
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$$w_1 := \frac{2\pi}{N} \quad a := 2 \cdot \text{Re}(S) \quad b := -2 \cdot \text{Im}(S)$$

$$u(t, n) := \begin{cases} c \leftarrow \text{foreach}(r2(0, n), '(k) \leftarrow a_k \cdot \cos(k \cdot w_1 \cdot t)) \\ s \leftarrow \text{foreach}(r2(0, n), '(k) \leftarrow b_k \cdot \sin(k \cdot w_1 \cdot t)) \\ \frac{a_0}{2} + \sum \text{foreach}(r2(1, n), '(k) \leftarrow c_k + s_k) \end{cases}$$

$$t := 0, t..(N-1) \cdot t$$



time(0) - start = 0.406