

A Modified Haar Wavelet Based Approach for State Analysis of A Pendulum Problem

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Abstract – In this paper, the state analysis of a pendulum problem via a modified Haar wavelet based approach is presented. Based upon some useful properties of Haar functions like operational matrix of integration, a special product matrix and a related coefficient matrix, problem of a pendulum is solved. Computational savings achieved with the modified method as compared to existing Hsiao method have been demonstrated using MATLAB PROFILER for different resolutions.

Keyword – connection coefficients, linear time varying system, operational matrices, Haar wavelet

I. INTRODUCTION

The parametric pendulum is a paradigm model. And because of its dynamic behavior, great attention is given to it for many years. As a pendulum swings, the angular acceleration of the pendulum will vary due to effect of gravity - it depends on θ , the angle between the pendulum and the vertically downwards position. The diagram below shows a simple pendulum with the forces acting on it. A classical-mechanical pendulum consisting of a bob of mass m and a string of length L in a uniform gravitational field of magnitude g . The gravitational potential energy of the system is defined to be zero at the height of the pivot point of the string. The pendulum bob swings through an angle θ .

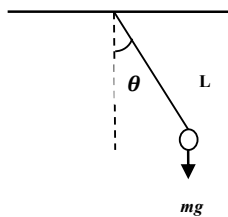


Fig.1 A simple pendulum

The pendulum problem is related to LTV system analysis and there are several numerical techniques for solving them. The analysis of LTV system is time taking and complex task when analytical and numerical methods are used. With the application of orthogonal functions, there is reduction in computational time and system analysis becomes easy for complex problems. Some of the orthogonal functions are block pulse functions, walsh functions, legendre functions, laguerre functions, fourier functions and haar functions. They

have been extensively used to different problems in terms of differential equations, analysis, optimization and identification of linear and non-linear systems for providing piecewise constant solutions [4]. The main characteristic of this technique is that a differential equation is converted into an algebraic equation, and hence the identification and optimization procedures are simplified to a great extent. Piecewise constant solutions are computationally more efficient and when the relevant conventional technique fails, they succeed to obtain the solution. Haar wavelets have been applied extensively in the field of signal processing in communications and proved to be a useful mathematical tool. In this paper to solve linear time varying systems, Haar wavelets properties like local basis property and multiplicative property[5] are applied.

For the integrals of the Haar function vector Haar operational matrix was first derived by Chen and Hsiao[3] who have done the innovative work in system analysis via Haar wavelets. Haar product matrix and a coefficient matrix was first derived by Hsiao[6] who have done the great work in solving lumped and distributed – parameter systems via Haar wavelet. But recursive formulation is applied to these operational matrices. Most of the studies are done for analysis and optimal control of linear time invariant systems but comparatively very less studies are done for LTV systems. Lin Wu[2] have also given Haar operational matrix of integration which is based on non-recursive formulation. In this paper a modified Haar wavelet approach is presented for state analysis of LTV system which is based on non-recursive operational integral matrix[2] & coefficient matrix by Hsiao[11].

The paper organization is as follows: In the section II introduction to Haar wavelet is given. Some important properties of Haar wavelets with various operational matrices are presented in section III followed by modified state analysis of LTV system in section IV. Section V illustrates the method with an example and results have been verified. In section VI comparison of both the techniques has been done.

II. HAAR WAVELETS

The Haar wavelet is a sequence of rescaled "square-shaped" functions which together form a wavelet family or basis. It allows a target function over an interval to be represented in terms of an orthonormal function basis[3].

The orthogonal set of Haar functions $h_i(t)$ is a group of square waves with magnitude ± 1 in some intervals and zero elsewhere.

In general,

$$h_n(t) = h_1(2^j t - k/2^j), \quad (1)$$

$$n = 2^j + k, j \geq 0, 0 \leq k < 2^j, n, j, k \in Z$$

Fig.2(a) is $h_0(t)=1$ during the whole interval $0 \leq t \leq 1$. It is the scaling function. The $h_1(t)$ is the mother wavelet and with the translation and dilation other subsequent curves are generated from it.

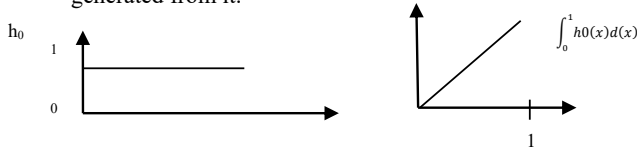


Fig. 2(a) First Haar function

Fig. 2(b) Integral of 1(a)

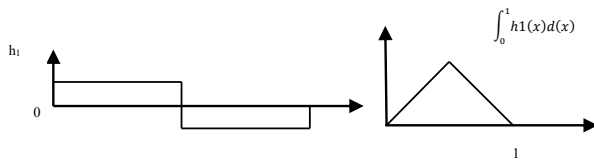


Fig. 3(a) Second Haar Function

Fig. 3(b) Integral of 2(a)

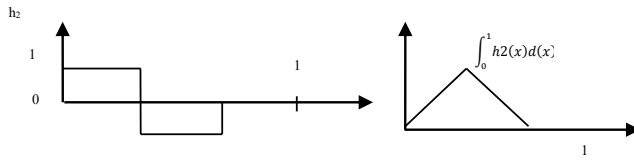


Fig. 4(a) Third Haar Function

Fig. 4(b) Integral of 3(a)

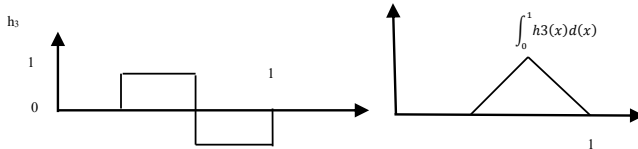


Fig. 5(a) Fourth Haar Function

Fig. 5(b) Integral of 4(a)

Any function $y(t)$ can be expanded in a Haar series if it is square integrable in the interval $[0,1)$:

$$y(t) = c_0 h_0(t) + c_1 h_1(t) + c_2 h_2(t) + \dots = c_m^T H_m(t), \quad (2)$$

$$m = 2^j, j \geq 0$$

$$c_i = 2^j \int_0^1 y(t) h_i(t) dt \quad (3)$$

For $m=4$, by taking the samples of first four Haar functions $H_m(t)$ is calculated as follows:

$$H_4(t) = [h_0(t) \ h_1(t) \ h_2(t) \ h_3(t)]^T$$

$$H_4(t) \triangleq \begin{bmatrix} h_0(t) \\ h_1(t) \\ h_2(t) \\ h_3(t) \end{bmatrix} = \begin{bmatrix} 1 & 1 & 1 & 1 \\ 1 & 1 & -1 & -1 \\ 1 & -1 & 0 & 0 \\ 0 & 0 & 1 & -1 \end{bmatrix} \quad (4)$$

The Haar coefficient c_i can be obtained by (3); however it is more convenient to evaluate it by matrix inversion as

$$c_m^T = y(t) H_m^{-1}, \quad (5)$$

Eq. (4) is called the *forward transform*, which turns the time function $y(t)$ into the coefficient vector c^T and (2) is called the *inverse transform*, which recovers $y(t)$ from c^T . The Haar transform is much faster than the Fourier transform and the Walsh transform[1] because H and H^{-1} contain many zeros.

III. SOME PROPERTIES OF HAAR WAVELETS

Wavelet analysis of a dynamic system is done if all functions are transformed into Haar series. Since Haar wavelet is not continuous, and therefore not differentiable, the integration of Haar wavelets[1] is preferred. The main advantage of this operational approach is to convert a differential equation into an algebraic equation.

We have noticed that all the Haar wavelet is orthogonal to each other:

$$\int_0^1 h_i(t) h_l(t) dt = 2^{-j} \delta_{il} = \begin{cases} 2^{-j} & i = l = 2^j + k \\ 0 & i \neq l \end{cases} \quad (6)$$

Therefore they form very good transform basis.

In the analysis of LTV system three matrices are encountered a) operational matrix of integration b) product matrix and c) connection matrix.

A. Operational matrix of integration

The integration of Haar wavelets should be expanded into Haar series with Haar coefficient matrix P_m [3]

$$\int_0^t H_m(t) dt \approx P_m H_m(t), \quad t \in [0,1) \quad (7)$$

where the m -square matrix P_m is called the *operational matrix of integration*. Integrals of first four Haar functions from fig.2(b),3(b),4(b) and 5(b) by taking samples can be expressed as:

$$\int_0^t H_4(t) dt = \frac{1}{8} \begin{bmatrix} 1 & 3 & 5 & 7 \\ 1 & 3 & 3 & 1 \\ 1 & 1 & 0 & 0 \\ 0 & 0 & 1 & 1 \end{bmatrix} \quad (8)$$

The operational matrix P_m is the Haar transform coefficient matrix of the integrals defined in (8):

$$P_m = \left[\int_0^t H_m(\tau) d\tau \right] H_m^{-1} \quad (9)$$

$$\text{For } m = 4, P_4 = \frac{1}{16} \begin{bmatrix} 8 & -4 & -2 & -2 \\ 4 & 0 & -2 & 2 \\ 1 & 1 & 0 & 0 \\ 1 & -1 & 0 & 0 \end{bmatrix}$$

P_m can also be calculated by recursive formulation[3,9] given by Hsiao[3] and non-recursive formulation given by Lin Wu[2]

1) *Recursive Haar operational matrix of integration*

In general for resolution m , the P_m is given as

$$P_m = \frac{1}{2m} \begin{bmatrix} 2mP_m & -H_m \\ H_m^{-1} & 0_m \end{bmatrix}, \quad P_1 = \frac{1}{2} \quad (10)$$

2) *Non-recursive operational matrix of integration P*

Lin Wu et al.[2] has given the integrated approach for computing the integration matrix for different orthogonal functions in terms of the generic orthogonal function $\Phi_m(t)$ i.e.:

$$Q_\phi(t) = \Phi \cdot Q_{B_m} \cdot \Phi^{-1} \quad (11)$$

Where Φ is sampled version of $\Phi_m(t)$.

For computing Non-recursive formulation of the operational matrix of integration of Haar wavelet, denoted as P_m at resolution m , the corresponding basis function from (4) are substituted in (11) in place of generic orthogonal basis function, resulting in

$$P_m = H_m \cdot Q_{B_m} \cdot H_m^{-1} \quad (12)$$

Where Q_{B_m} is the operational matrix of integration for block pulse function for resolution m .

Over $[0,1]$, the Block pulse function is defined as[10]:

$$b_i(t) = \begin{cases} 1, & t \in \left[\frac{i}{N}, \frac{i+1}{N} \right], \quad i = 0, 1, 2, \dots, N-1 \\ 0, & \text{elsewhere} \end{cases} \quad (13)$$

and its integral operator matrix[8] for resolution m is given as:

$$Q_{B_m} = \frac{1}{m} \begin{bmatrix} \frac{1}{2} & 1 & \dots & 1 \\ 0 & \dots & \dots & \vdots \\ \vdots & 0 & \frac{1}{2} & 1 \\ 0 & \dots & 0 & \frac{1}{2} \end{bmatrix} \quad (14)$$

The result given by non-recursive formulation in (12) and recursive formulation in (10) for P_m is same but there is saving in computational time taken by (10) as compared to (12).

B. *Haar Product Matrix*

Haar product matrix arises when the product of two Haar wavelet basis, i.e. $H_m(t)H_m^T(t)$ is encountered. This matrix is applied for computing expansion coefficients of the product of two time functions in the Haar domain, as if they are single function expansion coefficients[4]. Let the product $H_m(t)H_m^T(t)$ be called the *Haar product matrix M* :

$$M_m(t) \triangleq H_m(t)H_m^T(t)$$

$$M_m(t) \triangleq \begin{bmatrix} M_{m/2}(t) & H_{m/2} \text{diag}[h_b] \\ \text{diag}[h_b]H_{m/2}^T & \text{diag}[H_{m/2}^{-1} h_a] \end{bmatrix}, \quad M_1(t) = h_0(t) \quad (15)$$

Where $h_a \triangleq [h_0 h_1 \dots h_{m/2-1}]^T h_{m/2}$

$$h_b \triangleq [h_{m/2} h_{m/2+1} \dots h_{m-1}]^T$$

C. *Haar Connection Coefficients*

The Haar connection coefficients matrix arises when two functions are multiplied in the Haar domain and the result is to be represented as single Haar series expansion[4,5].

In general, product matrix satisfies

$$H_m(t)H_m^T(t)c_m = M_m(t)c_m = C_m H_m(t), \quad (16)$$

Where C_m is Haar connection coefficient matrix with dimension $m \times m$, corresponding to Haar expansion coefficients c_m .

The recursive formulation of connection coefficient matrix C_m in the literature[11] is defined as follows:

$$C_m \triangleq \begin{bmatrix} C_{m/2} & H_{m/2} \text{diag}[c_b] \\ \text{diag}[c_b]H_{m/2}^{-1} & \text{diag}[c_a^T H_{m/2}] \end{bmatrix}, \quad C_1 = c_0 \quad (17)$$

$$\text{Where } c_a \triangleq [c_0 \ c_1 \ \dots \ c_{m/2-1}]^T = c_{m/2} \quad (18)$$

$$c_b \triangleq [c_{m/2} \ c_{m/2+1} \ \dots \ c_{m-1}]^T \quad (19)$$

Proof of (15) and (17) can be found in [11]

Hsiao and Wang[5] applied these properties to solve the LTV systems first. A modified approach of [5] is explained in next section.

IV. *MODIFIED STATE ANALYSIS OF LINEAR TIME VARYING SYSTEM VIA HAAR WAVELETS*

Consider a general linear time varying system given as:

$$\dot{x}(t) = A(t)x(t) + B(t)u(t), \quad x(0) = x_0 \quad (20)$$

where $x(t) \in R^n$ is the state, $u(t) \in R^r$, and $A(t) \in R^{n \times n}$ and $B(t) \in R^{n \times r}$. The response $x(t)$, $0 \leq t < t_f$, is required to be found. Since the Haar function is defined for $[0,1]$, the time scale should be normalized by defining $t = t_f \cdot \tau$, then (20) becomes

$$\dot{x}(\tau) \triangleq \frac{dx(\tau)}{d\tau} = t_f [A(\tau)x(\tau) + B(\tau)u(\tau)], \quad x(0) = x_0 \quad (21)$$

where $\tau \in [0,1]$. Let $t_f A(\tau)$ and $t_f B(\tau)u(\tau)$ be decomposed into the form :

$$\begin{aligned} t_f \cdot A(\tau) &= A_1 \alpha_1(\tau) + A_2 \alpha_2(\tau) + \dots + A_p \alpha_p(\tau) \\ &= \sum_{i=1}^q A_i \alpha_i(\tau), \quad (p \leq n^2) \end{aligned} \quad (22)$$

where each A_i is a $n \times n$ constant matrix, and $\alpha_i(\tau)$ is a scalar time function; and

$$\begin{aligned} t_f \cdot B(\tau) u(\tau) &= b_1 \beta_1(\tau) + b_2 \beta_2(\tau) + \dots + b_q \beta_q(\tau) \\ &= \sum_{i=1}^q b_i \beta_i(\tau), \quad (q \leq n) \end{aligned} \quad (23)$$

Where each b_j is a constant n-vector, and $\beta_i(\tau)$ is a scalar time function. Thus (21) becomes

$$\dot{x}(\tau) = \sum_{i=1}^p A_i \alpha_i(\tau)x(\tau) + \sum_{i=1}^q b_j \beta_j(\tau), \quad x(0) = x_0 \quad (24)$$

$$\text{where } \alpha_i(\tau) = d_i^T h_m(\tau) \quad (25)$$

$$\beta_j(\tau) = e_j^T h_m(\tau) \quad (26)$$

$x(\tau)$ can be expanded into Haar series as

$$x(\tau) = \begin{bmatrix} f_1^T \\ f_2^T \\ \vdots \\ f_n^T \end{bmatrix} h_m(\tau) \triangleq F h_m(\tau) \quad (27)$$

where F is an $n \times m$ matrix. For $0 \leq \tau < 1$ Integration of (24) yields

$$x(\tau) - x_0 = \sum_{i=1}^p \int_0^\tau A_i \alpha_i(\tau)x(\tau)d\tau + \sum_{j=1}^q \int_0^\tau b_j \beta_j(\tau)d\tau, \quad (30)$$

Applying (25)-(26), state equation (30) becomes

$$\begin{aligned} F h_m(\tau) - [x_0 \underbrace{0 \dots 0}_{(m-1) \text{ columns}}] h_m(\tau) \\ = \sum_{i=1}^p A_i \int_0^\tau [d_i^T h_m(\tau) F h_m(\tau)] d(\tau) + \sum_{j=1}^q b_j \int_0^\tau e_j^T h_m(\tau) d\tau \\ = \sum_{i=1}^p A_i F \int_0^\tau h_m(\tau) h_m^T(\tau) d_i d\tau + \sum_{j=1}^q b_j \int_0^\tau e_j^T h_m(\tau) d\tau \end{aligned} \quad (31)$$

Using non-recursive integral operational matrix given by Lin Wu[2] from (12) and connection matrix by Hsiao[11] from (17), (31) becomes

$$\begin{aligned} F h_m(\tau) - [x_0 \ 0 \ \dots \ 0] h_m(\tau) = \sum_{i=1}^p A_i \cdot F \cdot D_i \int_0^\tau h_m(\tau) d\tau \\ + \sum_{j=1}^q b_j e_j^T \int_0^\tau h_m(\tau) d\tau \end{aligned} \quad (32)$$

where $D_i h_m(\tau) = M_{(m \times m)}(\tau) d_i = h_m(\tau) h_m^T(\tau) d_i$ is a copy of (16). The integral of (32) can be obtained by multiplying the operational matrix of integration as follows:

$$\begin{aligned} F h_m(\tau) - [x_0 \ 0 \ \dots \ 0] h_m(\tau) = \sum_{i=1}^p A_i \cdot F \cdot D_i \cdot P_m h_m(\tau) \\ + \sum_{j=1}^q b_j e_j^T P_m h_m(\tau) \end{aligned} \quad (33)$$

Therefore,

$$F - [x_0 \ 0 \ \dots \ 0] = \sum_{i=1}^p A_i \cdot F \cdot D_i \cdot P + \sum_{j=1}^q b_j e_j^T P \quad (38)$$

$$\text{Let } G \triangleq [x_0 \ 0 \ \dots \ 0] + \sum_{j=1}^q b_j e_j^T P \quad (39)$$

and

$$G = \begin{bmatrix} g_{10} & g_{11} & \dots & g_{1(m-1)} \\ g_{20} & g_{21} & \dots & g_{2(m-1)} \\ \vdots & \vdots & \vdots & \vdots \\ g_{n0} & g_{n1} & \dots & g_{n(m-1)} \end{bmatrix} \triangleq \begin{bmatrix} g_1^T \\ g_2^T \\ \vdots \\ g_n^T \end{bmatrix}, \quad (40)$$

$$g_j = [g_{j0} \ g_{j1} \ \dots \ g_{j(m-1)}]^T$$

Equation (38) is rewritten as

$$F - \sum_{i=1}^p A_i \cdot F \cdot D_i \cdot P = G \quad (41)$$

or

$$F - \sum_{i=1}^p A_i \cdot F \cdot D_i \cdot P = G \quad (42)$$

$$\begin{bmatrix} f_1 \\ f_2 \\ \vdots \\ f_n \end{bmatrix} = \{I - \sum_{i=1}^p A_i \otimes (D_i \cdot P)^T\}^{-1} \begin{bmatrix} g_1 \\ g_2 \\ \vdots \\ g_n \end{bmatrix} \quad (43)$$

Where \otimes is Kronecker product and (42) can be solved with Kronecker product which results in (43).

Once f_i , $i=1,2,\dots,n$, are known, the state variable $x(\tau)$ in the Haar series expansion can be calculated from (27).

In the next section the LTV system analysis using modified method is done. It is also demonstrated that modified method is computationally efficient as compared to existing method given by Hsiao [3]. State response of a linear time-variant system is also presented as an application.

V. EXAMPLE AND RESULTS

Consider a pendulum with length $l = 290.3\text{mm}$ and a point mass of $m = 1.38 \text{ kg}$ at one end, as shown in figure 5. The pendulum is anchored at a point A that is periodically excited by a shaker. When the angular displacement of the pendulum is small, the pendulum dynamics [12] can be modeled by the Mathieu's equation as

$$\ddot{\theta} + \frac{g}{l} (1 - \frac{\omega^2}{g} y_0 \cos \omega t) \theta = 0 \quad (44)$$

where θ is the angular displacement of the pendulum, ω is the excitation frequency at point A, and y_0 is the amplitude of point A. Here, it is assumed that the displacement of point A (generated by the shaker) is $y_0 \cos \omega t$. In the state space form, Mathieu's equation can be written as

$$\dot{x} = \begin{bmatrix} 0 & 1 \\ -\alpha(t) & 0 \end{bmatrix} x, \quad (45)$$

Where $x = [\theta \ \dot{\theta}]^T$ and $\alpha(t) = \frac{g}{l} (1 - \frac{\omega^2}{g} y_0 \cos \omega t)$.

For the system analysis, several free vibrations are generated with base frequency of $\omega=1\text{rad/s}$ and amplitude of $y_0 = 1.2\text{mm}$. The angular displacement θ is measured by an encoder and $\ddot{\theta}$ is obtained by an accelerometer.

Using modified method presented above, system is solved for resolution $m = 16$. It is shown by Fig.6 that the modified method is conforming well to the analytical solution in which the smooth curve is the analytical solution and the broken line is the solution using modified method.

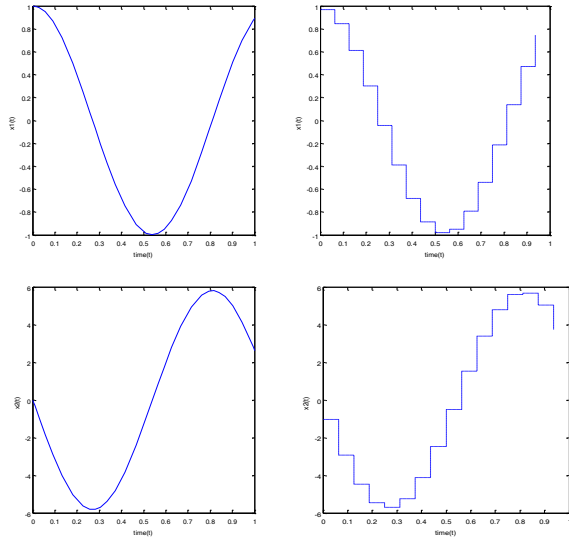


Fig. 6. State response of a simple pendulum

Computational savings achieved in the modified method using non-recursive operational matrix of integration and recursive connection coefficient formulation as compared to existing method is shown using MATLAB PROFILER in Table I.

The computational time for different resolution by both methods is clearly represented by bar graph in Fig. 7. As the resolution increases, the time saving is achieved.

TABLE I
COMPUTATIONAL EFFICIENCY FOR MODIFIED METHOD & EXISTING RECURSIVE APPROACH

	Modified Hsiao method	Hsiao Method																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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Size</th> <th>Time (sec)</th> <th>Time Per Call (sec)</th> </tr> </thead> <tbody> <tr><td>anslock</td><td>6</td><td>0.0005</td><td>0.0005</td><td>0.0000</td><td>0.0000</td></tr> <tr><td>ans</td><td>2</td><td>0.1108</td><td>0.0004</td><td>0.0000</td><td>0.0000</td></tr> <tr><td>ans1</td><td>2</td><td>0.1108</td><td>0.0004</td><td>0.0000</td><td>0.0000</td></tr> <tr><td>ans2</td><td>2</td><td>0.0007</td><td>0.0002</td><td>0.0000</td><td>0.0000</td></tr> <tr><td>ans3</td><td>2</td><td>0.0007</td><td>0.0002</td><td>0.0000</td><td>0.0000</td></tr> <tr><td>ans4</td><td>2</td><td>0.0007</td><td>0.0002</td><td>0.0000</td><td>0.0000</td></tr> <tr><td>ans5</td><td>2</td><td>0.0007</td><td>0.0002</td><td>0.0000</td><td>0.0000</td></tr> <tr><td>ans6</td><td>2</td><td>0.0007</td><td>0.0002</td><td>0.0000</td><td>0.0000</td></tr> <tr><td>ans7</td><td>2</td><td>0.0007</td><td>0.0002</td><td>0.0000</td><td>0.0000</td></tr> 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Size</th> <th>Time (sec)</th> <th>Time Per Call (sec)</th> </tr> </thead> <tbody> <tr><td>anslock</td><td>6</td><td>0.0005</td><td>0.0005</td><td>0.0000</td><td>0.0000</td></tr> <tr><td>ans</td><td>2</td><td>0.1108</td><td>0.0004</td><td>0.0000</td><td>0.0000</td></tr> <tr><td>ans1</td><td>2</td><td>0.1108</td><td>0.0004</td><td>0.0000</td><td>0.0000</td></tr> <tr><td>ans2</td><td>2</td><td>0.0007</td><td>0.0002</td><td>0.0000</td><td>0.0000</td></tr> <tr><td>ans3</td><td>2</td><td>0.0007</td><td>0.0002</td><td>0.0000</td><td>0.0000</td></tr> <tr><td>ans4</td><td>2</td><td>0.0007</td><td>0.0002</td><td>0.0000</td><td>0.0000</td></tr> <tr><td>ans5</td><td>2</td><td>0.0007</td><td>0.0002</td><td>0.0000</td><td>0.0000</td></tr> <tr><td>ans6</td><td>2</td><td>0.0007</td><td>0.0002</td><td>0.0000</td><td>0.0000</td></tr> <tr><td>ans7</td><td>2</td><td>0.0007</td><td>0.0002</td><td>0.0000</td><td>0.0000</td></tr> 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<tr><td>ans78</td><td>2</td><td>0.0007</td><td>0.0002</td><td>0.0000</td><td>0.0000</td></tr> <tr><td>ans79</td><td>2</td><td>0.0007</td><td>0.0002</td><td>0.0000</td><td>0.0000</td></tr> <tr><td>ans80</td><td>2</td><td>0.0007</td><td>0.0002</td><td>0.0000</td><td>0.0000</td></tr> <tr><td>ans81</td><td>2</td><td>0.0007</td><td>0.0002</td><td>0.0000</td><td>0.0000</td></tr> <tr><td>ans82</td><td>2</td><td>0.0007</td><td>0.0002</td><td>0.0000</td><td></td></tr></tbody></table>	Function Name	Calls	Total Size	Diff. Size	Time (sec)	Time Per Call (sec)	anslock	6	0.0005	0.0005	0.0000	0.0000	ans	2	0.1108	0.0004	0.0000	0.0000	ans1	2	0.1108	0.0004	0.0000	0.0000	ans2	2	0.0007	0.0002	0.0000	0.0000	ans3	2	0.0007	0.0002	0.0000	0.0000	ans4	2	0.0007	0.0002	0.0000	0.0000	ans5	2	0.0007	0.0002	0.0000	0.0000	ans6	2	0.0007	0.0002	0.0000	0.0000	ans7	2	0.0007	0.0002	0.0000	0.0000	ans8	2	0.0007	0.0002	0.0000	0.0000	ans9	2	0.0007	0.0002	0.0000	0.0000	ans10	2	0.0007	0.0002	0.0000	0.0000	ans11	2	0.0007	0.0002	0.0000	0.0000	ans12	2	0.0007	0.0002	0.0000	0.0000	ans13	2	0.0007	0.0002	0.0000	0.0000	ans14	2	0.0007	0.0002	0.0000	0.0000	ans15	2	0.0007	0.0002	0.0000	0.0000	ans16	2	0.0007	0.0002	0.0000	0.0000	ans17	2	0.0007	0.0002	0.0000	0.0000	ans18	2	0.0007	0.0002	0.0000	0.0000	ans19	2	0.0007	0.0002	0.0000	0.0000	ans20	2	0.0007	0.0002	0.0000	0.0000	ans21	2	0.0007	0.0002	0.0000	0.0000	ans22	2	0.0007	0.0002	0.0000	0.0000	ans23	2	0.0007	0.0002	0.0000	0.0000	ans24	2	0.0007	0.0002	0.0000	0.0000	ans25	2	0.0007	0.0002	0.0000	0.0000	ans26	2	0.0007	0.0002	0.0000	0.0000	ans27	2	0.0007	0.0002	0.0000	0.0000	ans28	2	0.0007	0.0002	0.0000	0.0000	ans29	2	0.0007	0.0002	0.0000	0.0000	ans30	2	0.0007	0.0002	0.0000	0.0000	ans31	2	0.0007	0.0002	0.0000	0.0000	ans32	2	0.0007	0.0002	0.0000	0.0000	ans33	2	0.0007	0.0002	0.0000	0.0000	ans34	2	0.0007	0.0002	0.0000	0.0000	ans35	2	0.0007	0.0002	0.0000	0.0000	ans36	2	0.0007	0.0002	0.0000	0.0000	ans37	2	0.0007	0.0002	0.0000	0.0000	ans38	2	0.0007	0.0002	0.0000	0.0000	ans39	2	0.0007	0.0002	0.0000	0.0000	ans40	2	0.0007	0.0002	0.0000	0.0000	ans41	2	0.0007	0.0002	0.0000	0.0000	ans42	2	0.0007	0.0002	0.0000	0.0000	ans43	2	0.0007	0.0002	0.0000	0.0000	ans44	2	0.0007	0.0002	0.0000	0.0000	ans45	2	0.0007	0.0002	0.0000	0.0000	ans46	2	0.0007	0.0002	0.0000	0.0000	ans47	2	0.0007	0.0002	0.0000	0.0000	ans48	2	0.0007	0.0002	0.0000	0.0000	ans49	2	0.0007	0.0002	0.0000	0.0000	ans50	2	0.0007	0.0002	0.0000	0.0000	ans51	2	0.0007	0.0002	0.0000	0.0000	ans52	2	0.0007	0.0002	0.0000	0.0000	ans53	2	0.0007	0.0002	0.0000	0.0000	ans54	2	0.0007	0.0002	0.0000	0.0000	ans55	2	0.0007	0.0002	0.0000	0.0000	ans56	2	0.0007	0.0002	0.0000	0.0000	ans57	2	0.0007	0.0002	0.0000	0.0000	ans58	2	0.0007	0.0002	0.0000	0.0000	ans59	2	0.0007	0.0002	0.0000	0.0000	ans60	2	0.0007	0.0002	0.0000	0.0000	ans61	2	0.0007	0.0002	0.0000	0.0000	ans62	2	0.0007	0.0002	0.0000	0.0000	ans63	2	0.0007	0.0002	0.0000	0.0000	ans64	2	0.0007	0.0002	0.0000	0.0000	ans65	2	0.0007	0.0002	0.0000	0.0000	ans66	2	0.0007	0.0002	0.0000	0.0000	ans67	2	0.0007	0.0002	0.0000	0.0000	ans68	2	0.0007	0.0002	0.0000	0.0000	ans69	2	0.0007	0.0002	0.0000	0.0000	ans70	2	0.0007	0.0002	0.0000	0.0000	ans71	2	0.0007	0.0002	0.0000	0.0000	ans72	2	0.0007	0.0002	0.0000	0.0000	ans73	2	0.0007	0.0002	0.0000	0.0000	ans74	2	0.0007	0.0002	0.0000	0.0000	ans75	2	0.0007	0.0002	0.0000	0.0000	ans76	2	0.0007	0.0002	0.0000	0.0000	ans77	2	0.0007	0.0002	0.0000	0.0000	ans78	2	0.0007	0.0002	0.0000	0.0000	ans79	2	0.0007	0.0002	0.0000	0.0000	ans80	2	0.0007	0.0002	0.0000	0.0000	ans81	2	0.0007	0.0002	0.0000	0.0000	ans82	2	0.0007	0.0002	0.0000	
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